

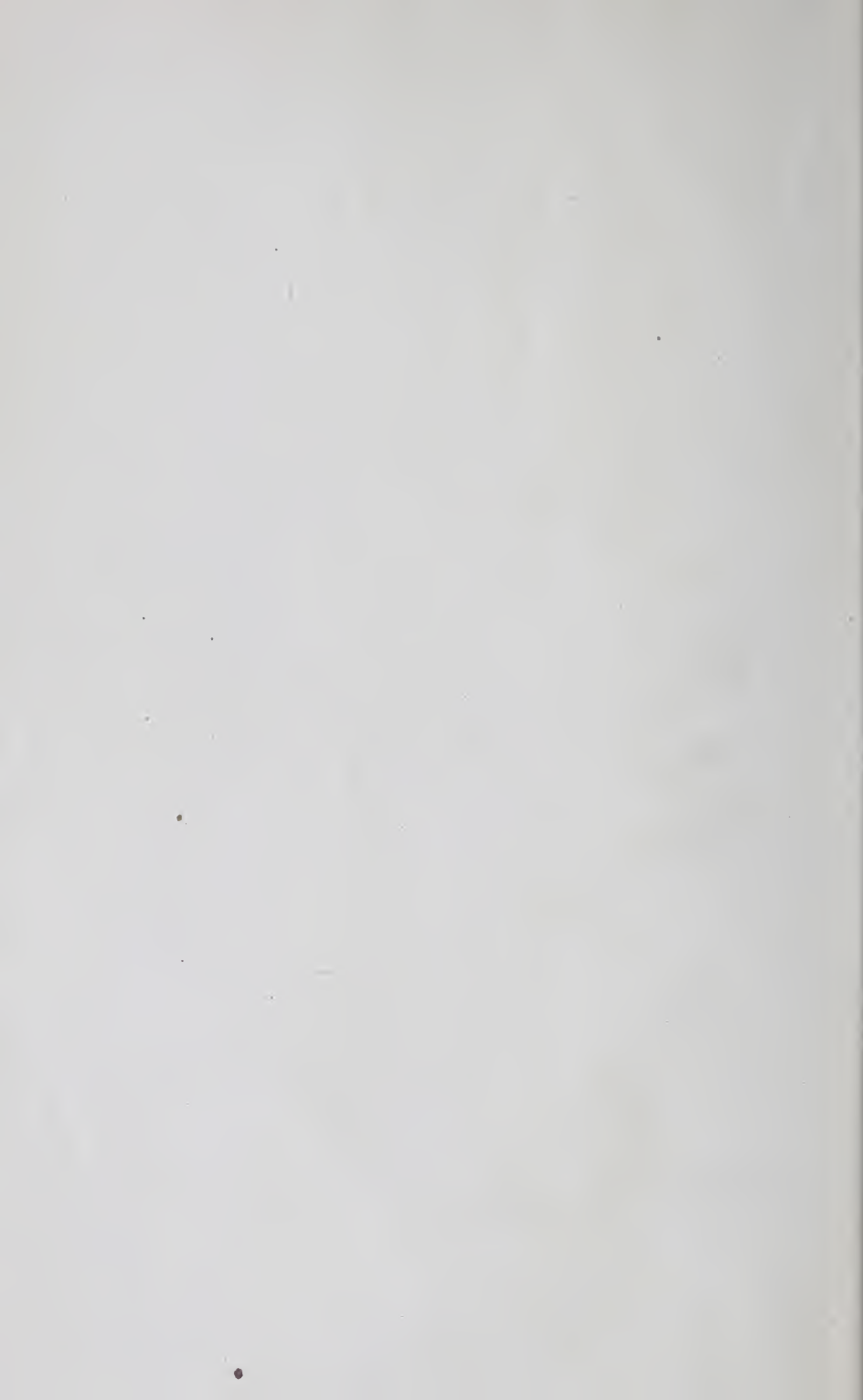



Hon. William P. Ellison.

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*The Inaugural Address of Hon.
William P. Ellison will be found
published in the City Document of
1882.*



CITY OF NEWTON.

AUDITOR'S ANNUAL REPORT

OF THE

FINANCES

OF THE

CITY OF NEWTON,

FOR THE YEAR ENDING DECEMBER 31, 1883;

TOGETHER WITH

THE REPORT OF THE OVERSEERS OF THE POOR, THE AGENT OF
THE BOARD OF HEALTH, AND THE CITY MARSHAL.

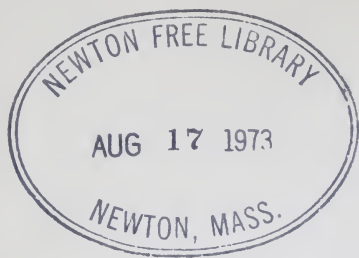
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BOSTON:

FRANKLIN PRESS: RAND, AVERY, & COMPANY.

1884.



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1883

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OFFICERS
OF THE
NEWTON CITY GOVERNMENT.
1883.

MAYOR.

WILLIAM P. ELLISON.

BOARD OF ALDERMEN.

J. WESLEY KIMBALL, *President.*

Ward One.

EDWARD W. CATE.¹

Ward Three.

ELIJAH W. WOOD.

Ward Five.

JAMES R. DEANE.

Ward Two.

J. WESLEY KIMBALL.

Ward Four.

DAVID T. BUNKER.

Ward Six.

DWIGHT CHESTER.

Ward Seven.

JOHN Q. HENRY.

COMMON COUNCIL.

EDWIN W. GAY, *President.*

Ward One.

IRA S. FRANKLIN.

WILLARD G. BRACKETT.

Ward Three.

FRED. W. FREEMAN.

JAMES H. NICKERSON.

Ward Two.

AUSTIN R. MITCHELL.

PRESCOTT C. BRIDGHAM.

Ward Four.

LUTHER E. LELAND.²

HENRY A. THORNDIKE.

¹ Resigned Jan. 1. Henry E. Cobb elected to fill vacancy Jan. 15.

² Resigned Sept. 4. William P. Holden elected to fill vacancy Oct. 1.

Ward Five.

WILLIAM PIERCE.
EBEN THOMPSON.

EDWIN W. GAY.

Ward Six.

WILLIAM B. YOUNG.
EDWARD H. MASON.

Ward Seven.

SAMUEL L. POWERS.

Clerk of Common Council.

ALBERT S. GLOVER.

City Treasurer, and Collector of Taxes.

JOHN A. KENRICK.

Deputy Collector.

FRANCIS M. TROWBRIDGE.¹MOSES CLARK, JUN.²

City Clerk, and Clerk of Board of Aldermen.

EDWIN O. CHILDS.³ISAAC F. KINGSBURY.⁴

City Auditor, and Clerk of Committees.

BENJAMIN F. OTIS.

City Solicitor.

WINFIELD S. SLOCUM.

City Engineer.

ALBERT F. NOYES.

Superintendent of Streets.

WILLIAM E. FULLER.

Water Registrar.

ALBERT S. GLOVER.

Superintendent of Water-Works.

H. N. HYDE, JUN.

Health Officer.

NATHAN MOSMAN.

City Messenger.

JOSEPH D. WELLINGTON.

¹ Deceased Jan. 28.³ Resigned March 19.² Appointed to fill vacancy Feb. 5.⁴ Elected to fill vacancy March 26.

ASSESSORS' DEPARTMENT.

Assessors.

ISAAC HAGAR, <i>Chairman</i>	.	.	.	Term expires January, 1886.
HOWARD B. COFFIN, <i>Secretary</i>	.	.	.	" " " 1884.
SAMUEL M. JACKSON	.	.	.	" " " 1885.

Assistant Assessors (*Elected Annually*).

Ward 1.—DEXTER WHIPPLE.	Ward 4.—RUFUS MOULTON.
Ward 2.—JOSEPH WALKER.	Ward 5.—S. N. WOODWARD.
Ward 3.—OSCAR F. LUCAS.	Ward 6.—GEORGE WARREN.
Ward 7.—JOHN WARNER.	

SCHOOL COMMITTEE

HON. WILLIAM P. ELLISON, *Mayor, Chairman ex officio.*

EDWIN W. GAY, *President Common Council ex officio.*

REV. AMOS E. LAWRENCE, *Chairman.*

ISAAC HAGAR, *Secretary.*

JOHN E. KIMBALL, *Superintendent.*

Elective Members.	Present Term of Office.
Ward 1.—EDMUND W. CONVERSE . . .	Expires January, 1886.
CHARLES H. STONE . . .	" " 1886.
Ward 2.—JOHN W. DICKINSON . . .	" " 1886.
A. AMELIA SMEAD . . .	" " 1886.
Ward 3.—JULIUS L. CLARKE . . .	" " 1885.
ELIJAH W. WOOD ¹ . . .	" " 1885.
Ward 4.—WILLIAM S. SMITH . . .	" " 1885.
ISAAC HAGAR . . .	" " 1885.
Ward 5.—JOHN A. GOULD . . .	" " 1884.
EDWIN P. SEAVER . . .	" " 1884.
Ward 6.—EMILY W. HYDE . . .	" " 1884.
AMOS E. LAWRENCE . . .	" " 1884.
Ward 7.—GEORGE W. SHINN . . .	" " 1884.
LINCOLN R. STONE . . .	" " 1885.

WATER BOARD.

From the Board of Aldermen.

J. WESLEY KIMBALL.

From the Common Council.

FRED. W. FREEMAN.

¹ Resigned Jan. 1. Fisher Ames elected to fill vacancy Jan. 3.

CITY GOVERNMENT.

At Large.

EDWARD W. CATE.

FRANCIS J. PARKER.

FRANCIS A. DEWSON.

EDWARD W. CATE, *President*.ALBERT S. GLOVER, *Clerk*.

POOR DEPARTMENT.

Board of Overseers.

THE MAYOR, *ex officio*, *Chairman*.

Ward 1. — CHARLES F. RAND.

Ward 4. — NATHAN MOSMAN.

Ward 2. — OLIVER B. LEAVITT.

Ward 5. — HOSEA C. HOYT.

Ward 3. — OSCAR F. LUCAS.

Ward 6. — GEORGE WARREN.

Ward 7. — JOHN WARNER.

NATHAN MOSMAN, *Clerk of Board*.NATHAN MOSMAN, *City Almoner*.NATHANIEL D. MOODY, *Warden of Almshouse*.

FIRE DEPARTMENT.

HENRY L. BIXBY, *Chief of Department*.WILLIAM BEMIS, *Assistant Chief of Department*.

TRUSTEES OF PUBLIC LIBRARY.

From the Board of Aldermen.

DAVID T. BUNKER.

From the Common Council.

WILLIAM PIERCE.

At Large.

JOHN S. FARLOW.

B. K. PEIRCE.

WILLIAM CLAFLIN.

A. LAWRENCE EDMANDS.

JULIUS L. CLARKE.

JOHN S. FARLOW, *President*.B. K. PEIRCE, *Superintendent*.HANNAH P. JAMES, *Librarian*.

POLICE DEPARTMENT.

REVILO L. HINDS,¹ *City Marshal*.CHARLES F. RICHARDSON, *Sergeant of Police*.

¹ Removed July 19. Daniel M. Hammond appointed to fill vacancy Sept. 3.

Police Officers.

JAMES D. HENTHORN.	CHARLES P. HUESTIS.
WILLIAM C. EMERSON.	ROBERT S. HARRISON.
NOAH F. BOSWORTH.	CHARLES E. DAVIS.
GEORGE E. F. BAKER.	FRANK B. FLETCHER.
CHARLES O. DAVIS.	JOHN PURCILL.
EDSON C. HOLMES.	RUFUS H. MOULTON.
JOHN RYAN.	W. G. BOSWORTH.

WARD OFFICERS.

Ward One.

HERBERT F. BENT, <i>Warden.</i>	FRANCIS M. TROWBRIDGE, ¹ <i>Clerk.</i>
	DEXTER WHIPPLE, }
	EDW. L. LEMON, } <i>Inspectors.</i>
	CHARLES F. RAND, }

Ward Two.

GEORGE E. BRIDGES, <i>Warden.</i>	WILLARD S. HIGGINS, <i>Clerk.</i>
	HENRY P. DEARBORN, }
	LAWRENCE H. CRANITCH, } <i>Inspectors.</i>
	JAMES D. BILLINGS, }

Ward Three.

FRANK H. PECK, <i>Warden.</i>	RICHARD A. CARROLL, <i>Clerk.</i>
	SAMUEL N. WATERS, }
	HARVEY C. WOOD, } <i>Inspectors.</i>
	RICHARD A. CARROLL, }

Ward Four.

BERNARD EARLY, <i>Warden.</i>	HENRY H. MATHER, <i>Clerk.</i>
	GEORGE W. CHAMBERLAIN, }
	G. LYMAN SNOW, } <i>Inspectors.</i>
	WILLIAM P. HOLDEN, }

Ward Five.

ALBERT J. GROVER, <i>Warden.</i>	LEWIS P. EVERETT, <i>Clerk.</i>
	EDW. M. BILLINGS, }
	JOHN W. HOWE, } <i>Inspectors.</i>
	WILLIAM T. LOGAN, }

¹ Deceased Jan. 28.

Ward Six.

SAMUEL M. JACKSON, *Warden*.LEWIS E. COFFIN, *Clerk*.

STILLMAN C. SPAULDING,	}	<i>Inspectors.</i>
GEORGE R. HOVEY,		
ROBERT R. BISHOP, JUN.		

Ward Seven.

CHARLES W. BASSETT, *Warden*.CHARLES W. BASSETT, *Clerk*.

EDW. B. HITCHCOCK,	}	<i>Inspectors.</i>
FRED. A. WETHERBEE,		
ABRAHAM BYFIELD.		

OFFICERS
OF THE
NEWTON CITY GOVERNMENT.
1884.

MAYOR.

J. WESLEY KIMBALL.

BOARD OF ALDERMEN.

DWIGHT CHESTER, *President.*

Ward One.

HENRY E. COBB.

Ward Two.

BENJAMIN S. GRANT.

Ward Three.

JOHN W. CARTER.

Ward Four.

NOAH W. FARLEY.

Ward Five.

GEORGE PETTEE.

Ward Six.

DWIGHT CHESTER.

Ward Seven.

JOHN Q. HENRY.

COMMON COUNCIL.

SAMUEL L. POWERS, *President.*

Ward One.

WILLARD G. BRACKETT.
JAMES EGGLESTON.

Ward Two.

PRESCOTT C. BRIDGHAM.
ALBERT F. UPTON.

Ward Three.

JAMES H. NICKERSON.
GEORGE D. DIX.

Ward Four.

WINTHROP B. ATHERTON.
GEORGE M. FISKE.

Ward Five.

EBEN THOMPSON.
JOHN F. HECKMAN.

Ward Six.

EDWARD H. MASON.
FRANK EDMANDS.

Ward Seven.

SAMUEL L. POWERS.

JAMES W. FRENCH.

Clerk of Common Council.

ALBERT S. GLOVER.

City Treasurer, and Collector of Taxes.

JOHN A. KENRICK.

Deputy Collector.

MOSES CLARK, JUN.

City Clerk, and Clerk of Board of Aldermen.

ISAAC F. KINGSBURY.

City Auditor, and Clerk of Committees.

BENJAMIN F. OTIS.

City Solicitor.

WINFIELD S. SLOCUM.

City Engineer.

ALBERT F. NOYES.

Superintendent of Streets.

WILLIAM E. FULLER.

Water Registrar.

ALBERT S. GLOVER.

Superintendent of Water-Works.

H. N. HYDE, JUN.

Agent of the Board of Health.

NATHAN MOSMAN.

City Messenger.

JOSEPH D. WELLINGTON.

ASSESSORS' DEPARTMENT.

Assessors.

ISAAC HAGAR, <i>Chairman</i>	.	.	.	Term expires January, 1886.
HOWARD B. COFFIN, <i>Secretary</i>	.	.	.	" " " 1887.
SAMUEL M. JACKSON	.	.	.	" " " 1885.

Assistant Assessors (*Elected Annually*).

Ward 1.—DEXTER WHIPPLE.	Ward 4.—RUFUS MOULTON.
Ward 2.—ELIHU SMEAD.	Ward 5.—S. N WOODWARD.
Ward 3.—OSCAR F. LUCAS.	Ward 6.—GEORGE WARREN.
Ward 7.—JOHN WARNER.	

SCHOOL COMMITTEE.

HON. J. WESLEY KIMBALL, *Mayor, Chairman ex officio*.
 SAMUEL L. POWERS, *President Common Council ex officio*.
 JULIUS L. CLARKE, *Chairman*.
 ISAAC HAGAR, *Secretary*.
 JOHN E. KIMBALL, *Superintendent*.

Elective Members.	Present Term of Office.
Ward 1.—EDMUND W. CONVERSE . . .	Expires January, 1886.
CHARLES H. STONE . . .	" " 1886.
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A. AMELIA SMEAD . . .	" " 1886.
Ward 3.—JULIUS L. CLARKE . . .	" " 1885.
FISHER AMES . . .	" " 1885.
Ward 4.—WILLIAM S. SMITH . . .	" " 1885.
ISAAC HAGAR . . .	" " 1885.
Ward 5.—JOHN A. GOULD . . .	" " 1887.
ALBERT B. PUTNEY . . .	" " 1887.
Ward 6.—CHARLES C. BARTON . . .	" " 1887.
WILLIAM D. PHILBRICK . . .	" " 1887.
Ward 7.—GEORGE W. SHINN . . .	" " 1887.
LINCOLN R. STONE . . .	" " 1885.

District Committees.

Newton Centre District.

CHARLES C. BARTON . . .	Newton Centre.
WILLIAM D. PHILBRICK . . .	Newton Centre.
JOHN A. GOULD . . .	Newton Upper Falls.
ALBERT B. PUTNEY . . .	Newton Highlands.
SAMUEL L. POWERS . . .	Newton.

Upper Falls District.

JOHN A. GOULD	Newton Upper Falls.
ALBERT B. PUTNEY	Newton Highlands.
ISAAC HAGAR	Newton Lower Falls.
WILLIAM D. PHILBRICK	Newton Centre.
CHARLES C. BARTON	Newton Centre.

Lower Falls District.

WILLIAM S. SMITH	Auburndale.
FISHER AMES	West Newton.
ISAAC HAGAR	Newton Lower Falls.

West Newton District.

JULIUS L. CLARKE	West Newton.
J. W. DICKINSON	Newtonville.
FISHER AMES	West Newton.
WILLIAM S. SMITH	Auburndale.
A. AMELIA SMEAD	Newtonville.

Newtonville District.

J. W. DICKINSON	Newtonville.
A. AMELIA SMEAD	Newtonville.
LINCOLN R. STONE	Newton.
EDMUND W. CONVERSE	Newton.
CHARLES H. STONE	Newton.

Newton District.

LINCOLN R. STONE	Newton.
CHARLES H. STONE	Newton.
GEORGE W. SHINN	Newton.
EDMUND W. CONVERSE	Newton.
SAMUEL L. POWERS	Newton.

Standing Committees of the Board.

High School.

JULIUS L. CLARKE.	GEORGE W. SHINN.
FISHER AMES.	EDMUND W. CONVERSE.
J. W. DICKINSON.	CHARLES C. BARTON.
WILLIAM S. SMITH.	THE MAYOR, <i>ex officio</i> .

Evening Schools.

GEORGE W. SHINN.	LINCOLN R. STONE.
WILLIAM D. PHILBRICK.	

Music.

LINCOLN R. STONE.	A. AMELIA SMEAD.
ALBERT B. PUTNEY.	

Drawing and Writing.

A. AMELIA SMEAD. CHARLES H. STONE.
ALBERT B. PUTNEY.

Industrial Drawing.

JOHN A. GOULD. CHARLES H. STONE. SAMUEL L. POWERS.

Sewing.

A. AMELIA SMEAD. GEORGE W. SHINN.
WILLIAM D. PHILBRICK.

Text-Books.

JULIUS L. CLARKE. WILLIAM S. SMITH.
CHARLES C. BARTON.

Rules and Regulations.

GEORGE W. SHINN. JOHN W. DICKINSON.
WILLIAM S. SMITH.

Salaries.

EDMUND W. CONVERSE. SAMUEL L. POWERS. FISHER AMES.

Schoolhouses.

ISAAC HAGAR. CHARLES H. STONE. LINCOLN R. STONE.

Accounts and Printing.

ISAAC HAGAR. FISHER AMES. JULIUS L. CLARKE.

WATER BOARD.

From the Board of Aldermen.

NOAH W. FARLEY.

From the Common Council.

ALBERT F. UPTON.

At Large.

EDWARD W. CATE. FRANCIS J. PARKER.¹
FRANCIS A. DEWSON.

EDWARD W. CATE, *President*.
ALBERT S. GLOVER, *Clerk*.

¹ Resigned May 31. Charles Fred Crehore appointed June 16.

POOR DEPARTMENT.

Board of Overseers.

THE MAYOR, *ex officio*, Chairman.

Ward 1. — DEXTER WHIPPLE.	Ward 4. — NATHAN MOSMAN.
Ward 2. — OLIVER B. LEAVITT.	Ward 5. — HOSEA C. HOYT.
Ward 3. — OSCAR F. LUCAS.	Ward 6. — GEORGE WARREN.
Ward 7. — JOHN WARNER.	

NATHAN MOSMAN, *Clerk of Board*.
 NATHAN MOSMAN, *City Almoner*.
 NATHANIEL D. MOODY, *Warden of Almshouse*.
 MRS. ELIZA A. MOODY, *Matron*.

FIRE DEPARTMENT.

HENRY L. BIXBY, *Chief of Department*.
 WILLIAM BEMIS, *Assistant Chief of Department*.

TRUSTEES OF PUBLIC LIBRARY.

From the Board of Aldermen.

NOAH W. FARLEY.

From the Common Council.

EBEN THOMPSON.

At Large.

JOHN S. FARLOW.	B. K. PEIRCE.
WILLIAM CLAFLIN.	A. LAWRENCE EDMANDS.
JULIUS L. CLARKE.	

JOHN S. FARLOW, *President*.
 B. K. PEIRCE, *Superintendent*.
 HANNAH P. JAMES, *Librarian*.

POLICE DEPARTMENT.

DANIEL M. HAMMOND, *City Marshal*.
 CHARLES F. RICHARDSON, *Sergeant of Police*.

Police Officers.

JAMES D. HENTHORN.	CHARLES P. HUESTIS.
WILLIAM C. EMERSON.	ROBERT S. HARRISON.
NOAH F. BOSWORTH.	CHARLES E. DAVIS.
GEORGE E. F. BAKER.	FRANK B. FLETCHER.
CHARLES O. DAVIS.	JOHN PURCILL.
EDSON C. HOLMES.	RUFUS H. MOULTON.
JOHN RYAN.	W. G. BOSWORTH.

WARD OFFICERS.

Ward One.

HERBERT F. BENT, <i>Warden.</i>	CHARLES F. RAND, <i>Clerk.</i>
DEXTER WHIPPLE,	} <i>Inspectors.</i>
EDW. L. LEMON,	
GEORGE LANE, 2d,	

Ward Two.

GEORGE E. BRIDGES, <i>Warden.</i>	WILLARD S. HIGGINS, <i>Clerk.</i>
HENRY P. DEARBORN,	} <i>Inspectors.</i>
LAWRENCE H. CRANITCH,	
JAMES D. BILLINGS,	

Ward Three.

GEORGE H. INGRAHAM, <i>Warden.</i>	RICHARD A. CARROLL, <i>Clerk.</i>
FRANK E. HUNTER,	} <i>Inspectors.</i>
HARVEY C. WOOD,	
CHARLES F. TUTTLE,	

Ward Four.

G. LYMAN SNOW, <i>Warden.</i>	HENRY H. MATHER, <i>Clerk.</i>
GEORGE W. CHAMBERLAIN,	} <i>Inspectors.</i>
CHARLES F. FORD,	
EVERETT E. MOODY,	

Ward Five.

ALBERT J. GROVER, <i>Warden.</i>	LEWIS P. EVERETT, <i>Clerk.</i>
EDW. M. BILLINGS,	} <i>Inspectors.</i>
WILLIAM T. LOGAN,	
PHILIP T. BAGLEY,	

Ward Six.

SAMUEL M. JACKSON, <i>Warden.</i>	LEWIS E. COFFIN, <i>Clerk.</i>
STILLMAN C. SPAULDING,	} <i>Inspectors.</i>
GEORGE R. HOVEY,	
ROBERT R. BISHOP, JUN.,	

Ward Seven.

J. EDWIN WARNER, <i>Warden.</i>	CHARLES W. BASSETT, <i>Clerk.</i>
EDW. B. HITCHCOCK,	} <i>Inspectors.</i>
FRED. A. WETHERBEE,	
ABRAHAM BYFIELD,	

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.**Committee on Finance and Salaries.**

JOHN Q. HENRY.	Aldermen.	BENJAMIN S. GRANT.
	Councilmen.	
PRESIDENT SAMUEL L. POWERS.	WILLARD G. BRACKETT.	
	EDWARD H. MASON.	

Committee on Accounts.

NOAH W. FARLEY.	Aldermen.	JOHN W. CARTER.
	Councilmen.	
PRESCOTT C. BRIDGHAM.	JAMES EGGLESTON.	
	JOHN F. HECKMAN.	

Committee on Public Property and Burial-Grounds.

GEORGE PETTEE.	Aldermen.	BENJAMIN S. GRANT.
	Councilmen.	
EDWARD H. MASON.	WINTHROP B. ATHERTON.	
	JAMES EGGLESTON.	

Committee on State Aid, Soldiers' Relief, and Military Affairs.

JOHN W. CARTER.	Aldermen.	HENRY E. COBB.
	Councilmen.	
EBEN THOMPSON.	ALBERT F. UPTON.	
	GEORGE M. FISKE.	

Committee on Fuel and Street Lights.

BENJAMIN S. GRANT.	Aldermen.	HENRY E. COBB.
	Councilmen.	
EBEN THOMPSON.	JAMES W. FRENCH.	
	FRANK EDMANDS.	

Committee on Fire Department.

HENRY E. COBB.	Aldermen.	GEORGE PETTEE.
	Councilmen.	
ALBERT F. UPTON.	WINTHROP B. ATHERTON.	
	FRANK EDMANDS.	

Committees on Highways, Streets and Ways, Sidewalks, Drains and Sewers.

DWIGHT CHESTER.	Aldermen.	JOHN Q. HENRY.
	Councilmen.	
JAMES H. NICKERSON.	PRESCOTT C. BRIDGHAM.	
	GEORGE M. FISKE.	

Committee on Printing.

Alderman.

JOHN W. CARTER.

Councilmen.

EBEN THOMPSON.

WINTHROP B. ATHERTON.

Committee on Ordinances.

Aldermen.

DWIGHT CHESTER.

BENJAMIN S. GRANT.

Councilmen.

WILLARD G. BRACKETT.

GEORGE M. FISKE.

JOHN F. HECKMAN.

Committee on Claims.

Aldermen.

JOHN Q. HENRY.

DWIGHT CHESTER.

Councilmen.

PRESIDENT SAMUEL L. POWERS.

GEORGE D. DIX.

JOHN F. HECKMAN.

Committee on Almshouse and Poor.

Alderman.

GEORGE PETTEE.

Councilmen.

PRESCOTT C. BRIDGHAM.

GEORGE D. DIX.

Committee on Assessors' Department.

Alderman.

NOAH W. FARLEY.

Councilmen.

JAMES W. FRENCH.

GEORGE D. DIX.

Highway Surveyors.

Aldermen.

DWIGHT CHESTER.

JOHN Q. HENRY.

Councilmen.

JAMES H. NICKERSON.

PRESCOTT C. BRIDGHAM.

GEORGE M. FISKE.

Committee on Parks.

Aldermen.

BENJAMIN S. GRANT.

NOAH W. FARLEY.

GEORGE PETTEE.

Councilmen.

JAMES H. NICKERSON.

WILLARD G. BRACKETT.

EDWARD H. MASON.

JAMES W. FRENCH.

STANDING COMMITTEE OF THE BOARD OF ALDERMEN.**Committee on Enrolled Ordinances and Resolutions.**

Aldermen.

DWIGHT CHESTER. BENJAMIN S. GRANT.

STANDING COMMITTEE OF THE MAYOR AND ALDERMEN.**Committee on Police.****THE MAYOR.**

Aldermen.

HENRY E. COBB. JOHN W. CARTER.

Committee on Licenses, Weights, and Measures.

Aldermen.

JOHN Q. HENRY. NOAH W. FARLEY.

Committee on Elections.

Aldermen.

HENRY E. COBB. GEORGE PETTEE.

President of the Board of Health.

JOHN Q. HENRY.

STANDING COMMITTEE OF THE BOARD OF HEALTH.

Aldermen.

HENRY E. COBB. JOHN W. CARTER.
NOAH W. FARLEY.

STANDING COMMITTEE OF THE COMMON COUNCIL.**Committee on Enrolled Ordinances and Resolutions.**

Councilmen.

PRESCOTT C. BRIDGHAM. JAMES EGGLESTON.
JOHN F. HECKMAN.

REGISTRARS OF VOTERS.

ISAAC F. KINGSBURY, *City Clerk ex officio*.
GEORGE E. BRIDGES, 1 year. RICHARD T. SULLIVAN, 2 years.
GEORGE H. BOURNE, 3 years.

AUDITOR'S REPORT.

CITY OF NEWTON.

AUDITOR'S DEPARTMENT, CITY HALL,
April 28, 1884.

To the Honorable City Council.

GENTLEMEN,—In conformity with the requirements of Section 10 of Ordinance No. 4, relating to Finance, the undersigned presents herewith his Annual Report of the receipts and expenditures of the City of Newton for the financial year commencing Jan. 1, and terminating Dec. 31, 1883, with a detailed account of each department, a statement of the liabilities and assets, the rates of interest, and times the notes and bonds are payable, also a statement of the sinking funds, a schedule of the real and personal property, with other information relating to the financial matters of the city.

Respectfully submitted.

BENJAMIN F. OTIS, *Auditor.*

CITY OF NEWTON, Dec. 31, 1883.

To the Honorable Mayor and City Council.

GENTLEMEN, — In accordance with Section 11 of Ordinance No. 4, I have the honor to lay before you the statement of the receipts and expenditures of the Treasury Department for the year ending Dec. 31, 1883.

Very respectfully yours,

JOHN A. KENRICK,

Treasurer and Collector.

CITY TREASURER'S ACCOUNT.

City of Newton in Account with JOHN A. KENRICK, Treasurer and Collector.

DR.

Almshouse, expenses and repairs . . .	\$4,827 68
Armory, rent and expenses . . .	1,089 51
Auburndale schoolhouse . . .	16,013 36
Books, stationery, and printing . . .	2,486 00
Board of Health . . .	2,125 59
Burial-grounds . . .	395 00
Commonwealth of Massachusetts, bank tax .	1,080 13
Commonwealth of Massachusetts, state tax .	24,135 00
County of Middlesex, county tax . . .	15,150 75
Conveyance of pupils . . .	540 00
Curbing . . .	1,500 00
City Hall, expenses . . .	1,621 73
City engineer's department . . .	6,416 07
Drains and culverts . . .	11,148 92
Evening schools . . .	516 69
Farlow Park . . .	25,000 00
Farlow Park, special . . .	5,322 41
Fire department . . .	23,606 47
Funded debt, 6½ per cent notes . . .	40,000 00
Funded debt, 6 per cent notes . . .	30,000 00
<i>Amount carried forward . . .</i>	<u>\$212,975 31</u>

<i>Amount brought forward</i>	\$212,975 31
General expenses for schools	84,890 96
Gravel land	7,661 05
Heating, ventilating, repairs, etc., on school-houses	16,375 82
Highways, general repairs	60,529 58
Highways, widening and improvements . .	7,392 78
Hutchin, W. F.	75 00
Improvement on public squares	971 24
Interest on city loans	25,277 61
Interest on water bonds	50,900 00
Indigent soldiers and sailors	930 00
Industrial and mechanical drawing . . .	167 75
Kenrick Fund	179 80
Land damages	554 42
Memorial Day	300 00
Miscellaneous expenses	21,095 05
Newton free library	9,020 60
Nonantum schoolhouse	11,107 63
Overlay, 1881, 1882, 1883	5,652 27
Police department	17,514 82
Poor out of almshouse	8,156 80
Public property	15,700 56
Read Fund	40,000 00
Removal of ashes	2,015 34
Salaries	12,155 39
School incidentals	9,129 41
Sidewalks	6,000 00
Sinking fund on city debt	20,800 00
Sinking fund on water debt	16,000 00
Street-light department	19,730 65
State aid	875 50
Temporary loans	315,000 00
United States Street Lighting Company .	500 00
Use of hydrants	7,520 00
<i>Amount carried forward</i>	<hr/> \$1,007,155 34

<i>Amount brought forward</i>	\$1,007,155 34
Water construction	43,630 02
Water maintenance	16,179 61
Water maintenance, meters, and service-pipes,	5,735 60
Balance in the treasury Dec. 31, 1883	58,435 98
<hr/>	
Total	\$1,131,136 55

CR.

Balance in the treasury Dec. 31, 1882	\$33,630 35
Almshouse	1,340 00
Armory	400 00
Books, stationery, and printing	63 24
Corporation tax	38,500 80
City Hall, expenses	676 00
Collector's fees	388 77
Dog tax	1,075 26
Druggists' license-fees	15 00
Farlow Park	3,150 50
Fire department	97 51
Foreign ships	2,091 11
Funded debt, 4 per cent water bonds	50,000 00
Funded debt, 4 per cent public park loan	25,000 00
Highways	5,715 59
Hutchin, W. F.	234 60
Interest on city loan	11 69
Interest on bank deposits	722 16
Interest on public park loan	166 66
Interest on taxes	1,897 42
Interest on water bonds	460 00
Indigent soldiers and sailors	418 00
Kenrick Fund	66 50
Miscellaneous	5 95
National bank tax	12,604 09
<hr/>	
<i>Amount carried forward</i>	\$183,731 20

<i>Amount brought forward</i>	.	.	.	.	\$183,731 20
Newton free catalogue account	.	.	.	.	29 50
Police department	.	.	.	.	945 52
Poor out of almshouse	.	.	.	.	1,468 96
Premium on public park bonds	.	.	.	.	952 50
Premium on water bonds	.	.	.	.	1,005 00
Public property	.	.	.	.	342 75
Read Fund	.	.	.	.	40,000 00
Record and other fees	.	.	.	.	388 75
Sidewalks and curbing	.	.	.	.	447 44
Sinking fund commissioners, city debt	.	.	.	.	70,000 00
State aid	.	.	.	.	930 00
Taxes of 1879	.	.	.	.	2 00
Taxes of 1880	.	.	.	.	2 00
Taxes of 1881	.	.	.	.	291 42
Taxes of 1882	.	.	.	.	57,653 83
Taxes of 1883	.	.	.	.	351,578 82
Temporary loans	.	.	.	.	360,000 00
Torrey, George A.	.	.	.	.	50 00
Tuition non-resident pupils	.	.	.	.	523 00
United States Street Lighting Company	.	.	.	.	500 00
Water construction	.	.	.	.	5,238 41
Water maintenance, meters, and services	.	.	.	.	5,727 50
Water-rates	.	.	.	.	30,913 92
Water-rates by meter	.	.	.	.	18,414 03
Total	.	.	.	.	<u>\$1,131,136 55</u>

JOHN A. KENRICK,
Treasurer and Collector, City of Newton.

NEWTON, Dec. 31, 1883.

CITY OF NEWTON, Dec. 31, 1883.

THE Joint Standing Committee on Finance beg leave to report, that, in pursuance of Section 13 of Ordinance No. 4, they have examined the books and accounts of the Treasurer and Collector for the financial year ending Dec. 31, 1883, and find them correct in all respects, and all payments properly vouched.

Cash on hand Dec. 31, 1882	\$38,630 35
Total cash rec'pts for year ending Dec. 31, 1883, 1,092,506 20	
	<hr/>
	1,131,136 55
Payments of the year	1,072,700 57
	<hr/>
On hand at close of business, Dec. 31, 1883 . .	\$58,435 98

This balance has been verified by examination of the bank balance to the credit of the city, and cash and cash items in the office.

They further report that there remains due and uncollected the following taxes and assessments:—

Taxes of 1879	\$891 52
Taxes of 1880	905 94
Taxes of 1881	1,228 00
Taxes of 1882	1,985 37
Taxes of 1883	76,725 57
Sidewalk and curbing assessments	232 76
Betterments on drains in Wards 1, 2, estimated, 2,400 00	
	<hr/>
Total	\$84,369 16

Respectfully submitted.

J. Q. HENRY,	} Committee on Finance.
J. WESLEY KIMBALL,	
EDWIN W. GAY,	
W. G. BRACKETT,	
EDWARD H. MASON,	

**LIABILITIES OF THE CITY OF NEWTON TO DEC. 31, 1883,
INCLUSIVE.**

Water loan	\$950,000 00	
Accrued interest on same	25,250 00	
	<hr/>	\$975,250 00
Town and city notes	\$253,000 00	
Accrued interest on same	3,649 22	
	<hr/>	256,649 22
Municipal bonds	\$34,000 00	
Accrued interest on same	850 00	
	<hr/>	34,850 00
Public park bonds	\$25,000 00	
Accrued interest on same	250 00	
	<hr/>	25,250 00
Temporary loans	\$90,000 00	
Accrued interest on same	374 16	
	<hr/>	90,374 16
Uninvested portion of principal of Kenrick Fund	\$1,740 00	
Accrued interest on same	52 20	
	<hr/>	1,792 20
Suspense account, amount in treasury subject to call by sundry parties	\$661 68	
George A. Torrey, amount de- posited to guarantee contract for lighting streets	50 00	
Mayor's warrants unpaid, appro- priations, etc.	34,997 39	
Mayor's warrants unpaid, water construction	616 27	
	<hr/>	36,325 34
<i>Amount carried forward</i>		<hr/> \$1,420,490 92

Amount brought forward \$1,420,490 92

DETAILED STATEMENT OF ASSETS.

Balance of taxes, 1879,	\$891 52	
Balance of taxes, 1880,	905 94	
Balance of taxes, 1881,	1,228 00	
Balance of taxes, 1882,	1,985 37	
Balance of taxes, 1883,	76,725 57	
	<hr/>	\$81,736 40
Due from Commonwealth of Massachusetts as follows:—		
On account of aid to soldiers and sailors under chapters 301 and 252, Acts of 1879 .	1,500 00	
Balance of corporation tax .	3,559 84	
Armory rent for 1883 . .	400 00	
Due from county treasurer:—		
Dog tax for 1883	1,480 00	
Due from miscellaneous sources; viz.,—		
From sundry persons for betterments on drains in Wards 1 and 2	2,400 00	
From sundry persons for sidewalk and curbing assessments	232 76	
Cash on hand	58,435 98	

Sinking Funds.

Water debt sinking fund:—

City of Newton water bonds, 5% .	\$62,000 00	
City of Newton water bonds, 4% .	62,000 00	
Cash on deposit on interest . . .	242 35	
	<hr/>	124,242 35

Amounts carried forward,

 \$273,987 33

 \$1,420,490 92

<i>Amounts brought forward,</i>	\$273,987 33	\$1,420,490 92
City debt sinking fund:—		
City of Newton wa-		
ter bonds, 5% .	\$8,000 00	
City of Newton wa-		
ter bonds, 4% .	13,000 00	
Cash on deposit on		
interest . .	348 68	
	<hr/>	
	21,348 68	
	<hr/>	
		295,336 01
		<hr/>
		<u>\$1,125,154 91</u>

RECAPITULATION.

Water Debt.

Water loan	\$950,000 00	
Accrued interest on same . .	25,250 00	
Mayor's warrants unpaid for con-		
struction	616 27	
	<hr/>	
		\$975,866 27
Sinking fund		124,242 35
		<hr/>
Net water liability		<u>\$851,623 92</u>

City Debt, Exclusive of Water Debt.

Town and city notes	\$253,000 00	
Accrued interest on same . .	3,649 22	
	<hr/>	
		\$256,649 22
Municipal bonds	\$34,000 00	
Accrued interest on same . .	850 00	
	<hr/>	
		34,850 00
Public park bonds	\$25,000 00	
Accrued interest on same . .	250 00	
	<hr/>	
		25,250 00
		<hr/>
<i>Amount carried forward</i>		\$316,749 22

Amount brought forward		\$316,749 22
Temporary loan	\$90,000 00	
Accrued interest on same	374 16	
	<hr/>	90,37 16
Uninvested portion of principal of Kenrick fund	\$1,740 00	
Accrued interest on same	52 20	
	<hr/>	1,792 20
Suspense account, amount in treasury subject to call by sundry parties	\$661 68	
George A. Torrey, amount de- posited to guarantee contract for lighting streets	50 00	
Mayor's warrants unpaid, appro- priations, etc.	34,997 39	
	<hr/>	35,709 07
		<hr/>
		\$444,624 65
Cash on hand	\$58,435 98	
Sinking fund	21,348 68	
Balance taxes uncollected	81,736 40	
Other assets uncollected	9,572 60	
	<hr/>	171,093 66
		<hr/>
Net city debt liability		\$273,530 99

RECEIPTS.

The receipts for the year ending Dec. 31, 1883, are shown in the aggregates, as credited in the following accounts:—

Number of						
account.						
1.	Almshouse	.	.	.	.	\$1,340 00
2.	Armory	.	.	.	.	400 00
<i>Amount carried forward</i>						\$1,740 00

<i>Amount brought forward</i>	.	.	.	.	\$1,740 00
3. Books, stationery, and printing	.	.	.	.	63 24
4. City Hall	.	.	.	.	676 00
5. Collector's fees	.	.	.	.	388 77
6. Corporation tax	.	.	.	.	38,500 80
7. Dog tax	.	.	.	.	1,075 26
8. Druggists' license-fees	.	.	.	.	15 00
9. Farlow Park	.	.	.	.	3,150 50 +
10. Fire department	.	.	.	.	97 51
11. Funded debt, public park loan	.	.	.	.	25,000 00 +
12. Funded debt, water bonds	.	.	.	.	50,000 00 + <i>2.75</i>
13. Highway department	.	.	.	.	5,715 59 + <i>3.68 50</i>
14. W. F. Hutchin	.	.	.	.	234 60 +
15. Indigent soldiers and sailors	.	.	.	.	418 00
16. Interest on city loans	.	.	.	.	11 69
17. Interest on deposits	.	.	.	.	722 16
18. Interest on public park loan	.	.	.	.	166 66 +
19. Interest on taxes	.	.	.	.	1,897 42
20. Interest on water bonds	.	.	.	.	460 00 +
21. Kenrick Fund income, etc.	.	.	.	.	118 70 +
22. Miscellaneous	.	.	.	.	5 95
23. National bank tax	.	.	.	.	12,604 09
24. Newton free library, catalogue account	.	.	.	.	29 50
25. Police department	.	.	.	.	945 52
26. Poor out of almshouse	.	.	.	.	1,468 96
27. Premium on public park bonds	.	.	.	.	952 50 +
28. Premium on water bonds	.	.	.	.	1,005 00 +
29. Public property	.	.	.	.	342 75
30. Read Fund	.	.	.	.	40,000 00 +
31. Record and other fees	.	.	.	.	388 75
32. Ships engaged in foreign trade	.	.	.	.	2,091 11
33. Sidewalks and curbing	.	.	.	.	447 44
34. Sinking fund commissioners	.	.	.	.	70,000 00 +
35. State aid	.	.	.	.	930 00
36. Taxes, 1879	.	.	.	.	2 00 +

Amount carried forward \$261,665 47

x 196.417.00
1975 312.00
2 - 117.50

<i>Amount brought forward</i>	.	.	.	.	.	\$261,665 47
37. Taxes, 1880	.	.	.	.	.	2 00
38. Taxes, 1881	.	.	.	.	.	291 42
39. Taxes, 1882	.	.	.	.	.	57,653 83
40. Taxes, 1883	.	.	.	.	.	351,578 82
41. Temporary loans	.	.	.	.	.	360,000 00
42. George A. Torrey	.	.	.	.	.	50 00
43. Tuition for non-resident pupils	.	.	.	.	.	523 00
44. United States Street Lighting Company,	.	.	.	.	.	500 00
45. Water construction	.	.	.	.	.	5,238 41
46. Water-meters and service-pipe	.	.	.	.	.	5,727 50
47. Water-rates, by schedule rates	.	.	.	.	.	30,913 92
48. Water-rates, by meter	.	.	.	.	.	18,414 03
<hr/>						
Total receipts	.	.	.	.	.	\$1,092,558 40

EXPENSES.

The claims for the year ending Dec. 31, 1883, as approved and drawn for in the auditor's office, are shown in the aggregates, as charged to the following accounts:—

Number of
account.

1. Almshouse expenses and repairs	.	.	.	.	.	\$4,753 84
2. Armory rent and expenses	.	.	.	.	.	1,036 41
3. Auburndale schoolhouse, special appropriation	.	.	.	.	.	18,513 36
4. Books, stationery, and printing	.	.	.	.	.	2,699 85
5. Board of Health	.	.	.	.	.	2,216 34
6. Burial-grounds	.	.	.	.	.	395 00
7. Conveyance of pupils	.	.	.	.	.	600 00
8. Curbing	.	.	.	.	.	1,500 00
9. City Hall, expenses	.	.	.	.	.	1,665 50
10. City engineer's department	.	.	.	.	.	6,269 80
11. Drains and culverts	.	.	.	.	.	11,929 66
<hr/>						
<i>Amount carried forward</i>	.	.	.	.	.	\$51,579 76

<i>Amount brought forward</i>		\$51,579 76
12. Evening schools		523 39
13. Farlow Park		25,000 00 —
14. Farlow Park, special appropriation		5,322 41 —
15. Fire department		23,937 79
16. Funded debt		70,000 00 —
17. Gravel land		9,173 85
18. Heating, ventilating, etc., on school-houses		17,464 37
19. Highways, general repairs		63,003 47
20. Highways, widening and improvements		9,794 89
21. William F. Hutchin		75 00 —
22. Improvement on public squares		1,272 48
23. Interest on city loans		25,329 81
24. Interest on water bonds		50,900 00
25. Indigent soldiers and sailors		938 00
26. Industrial and mechanical drawing		167 75
27. Kenrick Fund income		179 80 —
28. Land damages		554 42
29. Memorial Day		300 00
30. Miscellaneous expenses		19,973 44
31. Newton free library		8,499 99
32. Nonantum schoolhouse, special appropriation		11,959 45 —
33. Police department		17,199 57
34. Poor out of almshouse		8,016 14
35. Public property		15,293 23
36. Read Fund		40,000 00 —
37. Removal of ashes		2,265 60
38. Salaries		13,908 17
39. Schools, general appropriation		84,856 40
40. School incidentals		9,794 73
41. Sidewalks		6,300 65
42. Sinking fund on city debt		20,800 00
43. Sinking fund on water debt		16,000 00
<i>Amount carried forward</i>		\$630,384 56

<i>Amount brought forward</i>	.	.	.	.	\$630,384 56
44. Street light department	.	.	.	.	19,996 94
45. State aid	.	.	.	.	876 00
46. Taxes, 1883, state	.	.	.	.	24,135 00
47. Taxes, 1883, county	.	.	.	.	15,150 75
48. Taxes, 1883, national bank	.	.	.	.	1,080 13
49. Temporary loans	.	.	.	.	315,000 00
50. United States Street Lighting Company,					500 00
51. Use of hydrants	.	.	.	.	7,520 00
52. Water maintenance	.	.	.	.	16,266 01
53. Water-meters and service-pipe	.	.	.	.	5,498 65
54. Water construction	.	.	.	.	37,040 69
<u>84</u> Total expenses	.	.	.	.	<u>\$1,073,448 73</u>

18.513.36
 11.959.45
30492.81

30.322.41
 72.110.
 75.
 179.80
 306.00.
 30492.81
 355.885.11
526915.0

526915.0
 526915.0
 526915.0
526915.0

TABLE SHOWING APPROPRIATIONS, TRANSFERS, MAYOR'S WARRANTS, TREASURER'S PAYMENTS, DIFFERENCES, EXCESS AND DEFICIENCY ACCOUNT.

OBJECT OF APPROPRIATIONS.	APPROPRIATIONS FOR 1883.	TRANSFERS.	TOTAL APPROPRIATIONS.	MAYOR'S WARRANTS.	TREASURER'S PAYMENTS.	DIFFERENCES.	EXCESS AND DEFICIENCY ACCOUNT.	
							Overdrawn.	Unexpended.
Alms-house expenses and repairs, \$3,800.00 {	\$4,300 00	-	\$4,300 00	\$4,753 84	\$4,827 68	\$73 84	\$453 84	-
Additional appropriation 500 00 }								\$163 59
Armory rent and expenses	1,200 00	-	1,200 00	1,036 41	1,089 51	53 10	-	15
Books, stationery, and printing	2,700 00	-	2,700 00	2,639 85	2,486 00	213 85	-	83 66
Board of Health	2,300 00	-	2,300 00	2,216 34	2,125 59	90 75	-	105 00
Burial-grounds	500 00	-	500 00	395 00	395 00	-	-	50 00
Conveyance of pupils	650 00	-	650 00	600 00	540 00	60 00	-	-
Curbing	1,500 00	-	1,500 00	1,500 00	1,500 00	-	-	-
City Hall, expenses	1,600 00	-	1,600 00	1,665 50	1,621 73	43 77	65 50	-
City engineer's department	6,000 00	-	6,000 00	6,269 80	6,416 07	146 27	269 80	-
Drains and culverts	14,000 00	\$2,000 00	12,000 00	11,929 66	11,148 92	780 74	-	70 34
Evening schools	650 00	-	650 00	523 39	516 69	6 70	-	126 61
Fire department	24,097 51	-	24,097 51	23,937 79	23,606 47	331 32	-	159 72
Additional appropriation 97 51 }								
General appropriation for schools, \$5,500.00 {	86,575 26	-	86,575 26	84,856 40	84,890 96	34 56	-	1,718 86
Dog tax	10,000 00	800 00	9,200 00	9,173 85	7,661 05	1,512 80	-	26 15
Gravel land	60,145 79	3,000 00	63,745 79	63,003 47	60,529 58	2,473 89	-	742 32
Highways, general repairs \$55,000.00 {								
Additional appropriation 5,145.79 }								
Highways, widening and improvements	10,000 00	-	10,000 00	9,794 89	7,392 78	2,402 11	-	205 11
*Improvement on public squares	2,500 00	1,225 00	1,275 00	1,272 48	971 24	301 24	-	2 52
Interest on city loans, temporary and permanent	25,500 00	-	25,500 00	25,329 81	25,277 61	52 20	-	170 19
Interest on water bonds	51,400 00	-	51,400 00	50,900 00	50,900 00	-	-	500 00
Indigent soldiers and sailors	1,000 00	-	1,000 00	938 00	930 00	8 00	-	62 00
Industrial and mechanical drawing	300 00	-	300 00	167 75	167 75	-	-	132 25
Land damages	1,400 00	800 00	600 00	554 42	554 42	-	-	45 58
Memorial Day	300 00	-	300 00	300 00	300 00	-	-	-
Miscellaneous expenses	18,000 00	-	18,000 00	19,973 44	21,635 05	1,121 61	1,973 44	-

Newton Free Library	8,500 00	-	8,500 00	8,499 99	9,020 60	520 61	-	520 61	01
Police department	17,700 00	-	17,700 00	17,199 57	17,514 82	315 25	-	315 25	43
Poor out of almshouse	7,500 00	-	7,500 00	8,016 14	8,156 80	140 66	516 14	-	500 43
Public property	15,000 00	-	15,000 00	15,293 23	15,700 56	437 33	293 23	-	-
Removal of ashes	3,000 00	-	3,000 00	2,265 60	2,015 34	230 26	-	734 40	-
Salaries	14,500 00	-	14,500 00	13,908 17	12,155 39	1,752 78	-	591 83	-
School incidentals	10,000 00	-	10,000 00	9,794 73	9,129 41	665 32	-	205 27	-
Sidewalks	6,261 30	-	6,261 30	6,300 65	6,000 00	300 65	39 35	-	-
Additional appropriation	20,800 00	-	20,800 00	20,800 00	20,800 00	-	-	-	-
Sinking fund on city debt	16,000 00	-	16,000 00	16,000 00	16,000 00	-	-	-	-
Sinking fund on water bonds, special ap- propriation	20,000 00	-	20,000 00	19,996 94	19,730 65	266 29	-	3 06	-
Street-light department	1,300 00	-	1,300 00	876 00	875 50	50	-	424 00	-
State aid	7,520 00	-	7,520 00	7,520 00	7,520 00	-	-	-	-
Use of hydrants	16,500 00	-	16,500 00	16,266 01	16,179 61	86 40	-	233 99	-
Water maintenance	5,500 00	-	5,500 00	5,498 65	5,735 60	236 95	-	1 35	-
Additional appropriation	17,500 00	-	17,500 00	17,464 37	16,375 82	1,088 55	-	35 63	-
Water-meters and service-pipe	-	-	-	-	-	-	-	-	-
Heating, ventilating, repairs, etc., on schoolhouses	-	-	-	-	-	-	-	-	-
*Transferred to special appropriation for Farlow Park	-	-	1,225 00	-	\$499,854 20	\$12,688 12	\$3,611 30	\$7,094 02	-
Less mayor's warrants of 1882, paid by treasurer in 1883	-	-	-	-	-	3,050 18	-	3,611 30	-
Amount of mayor's warrants for 1883, paid by treasurer in 1884	-	-	-	-	25,359 45	-	-	-	-
Transferred into treasury	\$514,199 86	-	\$514,199 86	\$509,492 14	\$474,494 75	-	-	-	-
	-	-	-	-	34,997 39	-	-	-	-
	-	-	-	-	\$509,492 14	\$9,637 94	-	\$3,482 72	-

PERMANENT DEBT.—DESCRIPTIVE LIST.

	RATE.	DATE OF LOAN, ETC.	PAYABLE.	AMOUNT.	INTEREST, WHEN PAYABLE.
City Institution for Savings, Lowell . . .	6 per cent	Oct. 3, 1867	Oct. 3, 1884	\$20,000 00	April and October
" " " " . . .	6 per cent	Oct. 3, 1867	Oct. 3, 1885	20,000 00	April and October
" " " " . . .	6 per cent	Oct. 3, 1867	Oct. 3, 1886	20,000 00	April and October
Commonwealth of Massachusetts . . .	6 per cent	Oct. 3, 1867	Oct. 3, 1887	20,000 00	April and October
" " " " . . .	6 per cent	April 1, 1868	April 1, 1888	30,000 00	April and October
" " " " . . .	6½ per cent	April 21, 1871	April 21, 1888	46,000 00	April and October
" " " " . . .	6 per cent	April 22, 1870	April 22, 1890	20,000 00	April and October
" " " " . . .	6 per cent	April 22, 1870	April 22, 1892	30,000 00	April and October
" " " " . . .	6 per cent	March 10, 1875	March 10, 1894	47,000 00	March and September
Municipal Bonds, \$1,000 each . . .	5 per cent	July 1, 1875	July 1, 1895	34,000 00	January and July
Water Bonds, \$1,000 each . . .	5 per cent	July 1, 1875	July 1, 1905	600,000 00	January and July
" " " " . . .	5 per cent	July 1, 1875	July 1, 1906	250,000 00	January and July
" " " " . . .	4 per cent	Oct. 1, 1880	Oct. 1, 1910	100,000 00	April and October
Public Park Bonds \$1,000 each . . .	4 per cent	June 1, 1883	April 1, 1908	25,000 00	April and October
				\$1,262,000 00	

STATEMENT OF THE KENRICK FUND.

The following is a statement of this fund and its income,
Jan. 1, 1884:—

Amount invested	.	.	.	.	.	.	\$2,260 00
Cash uninvested	.	.	.	.	.	.	1,740 00
							<hr/>
Total fund	.	.	.	.	.	.	\$4,000 00
							<hr/>
Balance income on hand Jan. 1, 1883,							\$113 30
Income received in 1883	.	.	.	.	.	.	118 70
							<hr/>
							\$232 00
Amount distributed	.	.	.	.	.	.	179 80
							<hr/>
Balance	.	.	.	.	.	.	\$52 20

The distribution of the income of this fund has been made, in accordance with the terms of the donor, to persons entitled to its benefits.

TAXES AND TAXABLE VALUATION.

The following will show the valuation of the property of the city on which taxes were assessed for the year 1883, with the amount of taxes and rate of taxation:—

Value of real estate	.	.	.	.	\$19,794,805 00
Value of personal estate	.	.	.	.	7,329,283 00
					<hr/>
					\$27,124,088 00
Taxable value of corporate stocks	.	.	.	.	2,570,150 00
Taxable value of bank stocks	.	.	.	.	850,000 00
					<hr/>
					\$30,544,238 00
					<hr/>

City appropriations for current expenses . . .	\$488,120 00
Deduct estimated receipts for 1883 . . .	103,700 00
	<hr/>
	\$384,420 00
State tax	24,135 00
County tax	15,150 75
Overlay and supplementary assessments . . .	3,502 04
	<hr/>
Total assessments	\$427,207 79
Rate of taxation, \$15.40 on \$1,000.	<hr/>

LEDGER BALANCES.

Betterments	\$8,206 05	
Bills receivable	250 00	
Bills receivable, Kenrick Fund	2,260 00	
Cash	58,435 98	
Overlay, 1883	1,039 31	
Public property owned by the city	831,118 10	
Schoolhouse at Auburndale	16,013 36	
Schoolhouse at Nonantum	11,107 63	
Sidewalk and curbing assess- ments	232 76	
Taxes, 1879	891 52	
Taxes, 1880	905 94	
Taxes, 1881	1,228 00	
Taxes, 1882	1,985 37	
Taxes, 1883	76,725 57	
Water construction, cost of works	942,375 66	
	<hr/>	\$1,952,775 25
		<hr/>
City of Newton	\$553,028 97	
Funded debt city bonds, 5 per cent	34,000 00	
Funded debt city notes, 6½ per cent.	46,000 00	
	<hr/>	
Amount carried forward	\$633,028 97	

<i>Amount brought forward</i>	\$633,028 97
Funded debt city notes, 6 per cent	207,000 00
Funded debt public park loan, 4 per cent	25,000 00
Funded debt water scrip, 6 per cent	600,000 00
Funded debt water scrip, 5 per cent	250,000 00
Funded debt water scrip, 4 per cent	100,000 00
William F. Hutchin	159 60
Kenrick Fund	4,000 00
Overlay, 1879	2,339 61
Overlay, 1880	3,801 44
Overlay, 1881	1,053 74
Overlay, 1882	682 82
Suspense account	661 68
George A. Torrey	50 00
Mayor's warrants, unpaid bills	34,997 39
Temporary loans	90,000 00
	<hr/>
	\$1,952,775 25
	<hr/>

REPORT OF THE SINKING FUND COMMISSIONERS.

NEWTON, Jan. 1, 1884.

In accordance with the requirements of the City Charter and Ordinances, the Sinking Fund Commissioners beg leave to report the condition of the funds and securities in their charge on the thirty-first day of December, 1883.

City Debt Sinking Fund.

On hand in cash and securities at par, Jan. 1, 1883	\$69,280 54
Received interest on bonds and deposits	1,268 14
Received appropriations by the city for 1883	20,800 00
	<hr/>
<i>Amount carried forward</i>	\$91,348 68

<i>Amount brought forward</i>	\$91,348 68
Paid city treasurer, to pay note due Boston Five Cents Sav- ings Bank	\$40,000 00
Paid treas. to pay note due Com- monwealth of Massachusetts . .	30,000 00
	<hr/> 70,000 00
	<hr/> \$21,348 68
Invested as follows; viz.:—	
City of Newton 5 per cent water bonds . .	\$8,000 00
City of Newton 4 per cent water bonds . .	13,000 00
Cash on deposit	348 68
	<hr/> \$21,348 68
	<hr/>

Water Debt Sinking Fund.

On hand in cash and securities at par, Jan. 1, 1883	\$103,415 38
Received balance of interest on bonds and de- posits	4,826 97
Received appropriations by the city for 1883 . .	16,000 00
	<hr/> \$124,242 35
Invested as follows; viz.:—	
City of Newton 5 per cent water bonds, 1906 . .	\$62,000 00
City of Newton 4 per cent water bonds, 1910 . .	62,000 00
Cash on deposit	242 35
	<hr/> \$124,242 35
	<hr/>

During the year we have bought for the water debt sinking fund \$40,000 in four per cent water bonds, as follows: \$15,000 from the city of Newton, and \$25,000 from the city debt sinking fund; and Dec. 22, 1883, we bought for the

city debt sinking fund \$10,000 four per cent water bonds from the city of Newton.

You will also notice that we have paid over to the city treasurer \$70,000 to enable the city to retire two notes of \$40,000 and \$30,000 respectively, all due April 1, 1883.

Your Commissioners also reported in October last, that there should be appropriated and paid into the sinking fund for the year 1884, as follows; viz.:—

For the city debt sinking fund . . .	\$20,800 00
For the water debt sinking fund . . .	16,000 00

Which is the same as recommended for 1883.

Respectfully submitted.

GEO. S. BULLENS,	} <i>Commissioners</i>
ALDEN SPEARE.	
GEORGE C. LORD,	
	<i>of the</i>
	<i>Sinking fund.</i>

STATEMENT IN DETAIL OF RECEIPTS.

Alms-house.

Received from N. D. Moody, warden, for sale of hay, wood, vegetables, etc.	\$1,300 00	
Received from C. F. Rand, for old furnace	40 00	
Total, as per item No. 1 of receipts . . .		\$1,340 00

Armory.

Received from Commonwealth of Massachusetts, for rent of armory, as per item No. 2 of re- ceipts	\$400 00
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Books, Stationery, and Printing.

Received from J. C. Clark Printing Company, refund of bill . . .	\$61 74	
Received from W. P. Ellison, for copy of Newton Directory . . .	1 50	
	<hr/>	
Total, as per item No. 3 of receipts . . .		\$63 24

City Hall.

Received for use of hall, etc. . . .	\$176 00	
Received from Amos Stone, treasurer of county of Middlesex, for rent of police court room	500 00	
	<hr/>	
Total, as per item No. 4 of receipts . . .		\$676 00

Collector's Fees.

Received from John A. Kenrick, treasurer, and collector of taxes, for summonses, adver- tising tax sales, etc., as per item No. 5 of receipts		\$388 77
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Corporation Tax.

Received from Commonwealth of Massachusetts, as per item No. 6 of receipts		\$38,500 80
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Dog Tax.

Received from Amos Stone, treasurer of county of Middlesex, for dog tax, as per item No. 7 of receipts		\$1,075 26
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Druggists' License-Fees.

Received from sundry persons, for liquor-licenses of the sixth class, as per item No. 8 of re- ceipts		\$15 00
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Farlow Park.

Received from sale of house on French estate	\$1,550 00	
Received from sale of barn on French estate	63 00	
Received from sale of stone, fence, trees, etc., on French estate .	240 00	
Received from sale of house on Ellis estate	1,200 00	
Received from sale of stone, furnace, etc., on Ellis estate	97 50	
<hr/>		
Total, as per item No. 9 of receipts . . .		\$3,150 50

Fire Department.

Received from Henry L. Bixby, for sale of old material, as per item No. 10 of receipts .	\$97 51
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Funded Debt.—Public Park Loan.

Received from J. F. Amsden & Co., for twenty-five bonds, 4 per cent, \$1,000 each, as per item No. 11 of receipts	\$25,000 00
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Funded Debt.—Water Bonds.

Received from the commissioners of sinking funds of city of Newton, for twenty-five water bonds, 4 per cent, \$1,000 each,	\$25,000 00	
Received from Blake Brothers & Co., for twenty-five water bonds, 4 per cent, \$1,000 each,	25,000 00	
<hr/>		
Total, as per item No. 12 of receipts . . .		\$50,000 00

Highway Department.

Received from Boston and Albany Railroad Corporation, for material and labor at grade-crossings .	\$5,407 09	
Received from almshouse department, for manure	270 00	
Received from W. E. Fuller, super- intendent of streets, for sale of old plank	18 50	
Received from W. E. Fuller, for sale of old stone watering-trough .	15 00	
Received from W. E. Fuller, for pas- torage on Towle place . . .	5 00	
<hr/>		
Total, as per item No. 13 of receipts .	\$5,715 59	
	<i>5407.09</i>	
Received from W. F. Hutchin, in trust, as per item No. 14 of receipts	\$234 60	<i>326.50</i>

Indigent Soldiers and Sailors.

Received from Commonwealth of Massachusetts, on account of aid to sundry persons, under chapter 252, Acts of 1879, as per item No. 15 of receipts	\$418 00
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Interest on City Loans.

Received from Blake Brothers & Co., interest on loans	\$7 00	
Received from Commonwealth of Massachusetts, interest on loans,	4 69	
<hr/>		
Total, as per item No. 16 of receipts .	\$11 69	

Interest on Deposits.

Received from Newton National Bank on daily balances, as per item No. 17 of receipts .	\$722 16
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Interest on Public Park Loan.

Received from J. F. Amsden & Co., accrued interest on \$25,000 4 per cent public park bonds, as per item No. 18 of receipts .	\$166 66
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Interest on Taxes.

Received from sundry persons, interest on taxes, as per item No. 19 of receipts .	\$1,897 42
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Interest on Water Bonds.

Received from commissioners of the sinking funds of the city of Newton, accrued interest on \$25,000 4 per cent water bonds.	\$235 00	
Received from Blake Brothers & Co., accrued interest on \$25,000 4 per cent water bonds . . .	225 00	
	<hr/>	
Total, as per item No. 20 of receipts .		\$460 00

Kenrick Fund Income, etc.

Balance uninvested Jan. 1, 1883, in city treasury	\$1,740 00	
Balance of income on hand Jan. 1, 1883	113 30	
	<hr/>	\$1,853 30
Income from investments . . .	\$66 50	
Received from city of Newton, interest on uninvested portion of fund	52 20	
	<hr/>	
Total, as per item No. 21 of receipts .		118 70
		<hr/>
<i>Amount carried forward</i>		\$1,972 00

Amount brought forward \$1,972 00

Expended.

Distributed per order Board of Aldermen, as per item No. 27 of expenses	\$179 80	
Balance income on hand	52 20	
	<hr/>	232 00

Balance uninvested Jan. 1, 1884 . . . \$1,740 00

Miscellaneous.

Received from North American Insurance Company, return premium on policy on French estate . . .	\$1 50	
Received from Suburban Telephone Company, refund of bill . . .	4 45	
	<hr/>	
Total, as per item No. 22 of receipts . . .		\$5 95

National Bank Tax.

Received from Commonwealth of Massachusetts National Bank, tax, as per item No. 23 of receipts . . .		\$12,604 09
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Newton Free Library.—Catalogue Account.

Received from B. K. Peirce, secretary, for sale of catalogues, as per item No. 24 of receipts		\$29 50
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Police Department.

Received from Edward W. Cate, clerk of police-court, fees, fees for witnesses, fines, and costs . . .	\$780 32	
Received from sale of horse . . .	165 20	
	<hr/>	

Total, as per item No. 25 of receipts . . . \$945 52

Poor out of Almshouse.

Received from Commonwealth of Massachusetts, for partial sup- port, etc., of sundry persons .	\$382 24	
Received from city of Boston, for partial support of sundry persons,	149 25	
Received from city of Gloucester, for partial support of sundry persons,	47 00	
Received from city of Malden, for partial support of sundry persons,	6 00	
Received from city of Lowell, for par- tial support of sundry persons .	4 00	
Received from town of Wellesley, for partial support of sundry persons,	231 75	
Received from town of Waltham, for partial support of sundry persons,	86 26	
Received from town of Concord, for partial support of sundry persons,	81 51	
Received from town of Blackstone, for partial support of sundry persons,	68 00	
Received from town of Grafton, for partial support of sundry persons,	21 00	
Received from town of Natick, for partial support of sundry persons,	18 10	
Received from town of Watertown, for partial support of sundry per- sons	12 00	
Received from town of Ipswich, for partial support of sundry persons,	11 57	
Received for partial support of J. C. Gipson	191 68	
Received for partial support of Ellen Wentworth	138 60	
Received for partial support of W. S. Scamman	20 00	
<hr/>		
Total, as per item No. 26 of receipts .		\$1,468 96

Premium on Public Park Bonds.

Received from J. F. Amsden & Co. 3.81 per cent premium on \$25,000 public park bonds, as per item No. 27 of receipts	\$952 50
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Premium on Water Bonds.

Received from Blake Brothers & Co. 4.02 per cent premium on \$25,000 water bonds, as per item No. 28 of receipts	\$1,005 00
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Public Property.

Received for rent of Prospect School-house Hall	\$146 00
Received for rent of Mason School-house Hall	100 00
Received for rent of Oak-Hill School-house Hall	18 75
Received for rent of house, Auburndale Avenue	72 00
Received from E. L. & F. S. Rollins, refund on bill	5 10
Received from R. H. White & Co., discount on bill	90

Total, as per item No. 29 of receipts	\$342 75
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Read Fund.

Received from William P. Ellison, executor, in accordance with the provisions in the will of the late Charles A. Read, as per item No. 30 of receipts	\$40,000 00
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Record and Other Fees.

Received from city clerk, for recording mortgages, marriage-certificates, assignments, etc., as per item No. 31 of receipts	\$388 75
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Ships Engaged in Foreign Trade.

Received from Commonwealth of Massachusetts,
on account of ships engaged in foreign trade,
as per item No. 32 of receipts . . . \$2,091 11

Sidewalks and Curbing.

Received from sundry parties, on account of side-
walks and curbing, as per item No. 33 of re-
ceipts \$447 44

Sinking Fund Commissioners.

Received from the commissioners of the sinking
funds of the city of Newton, for the payment
of two notes of the town of Newton, as per
item No. 34 of receipt \$70,000 00

State Aid.

Received from Commonwealth of Massachusetts,
on account of sundry persons, as per item
No. 35 of receipts \$930 00

Taxes, 1879.

Balance uncollected Dec. 31, 1882	.	\$893 52
Received since Dec. 31, 1882, as per		
item No. 36 of receipts	.	2 00
		<hr/>
Balance uncollected Dec. 31, 1883	.	\$891 52

Taxes, 1880.

Balance uncollected Dec. 31, 1882	.	\$907 94
Received since Dec. 31, 1882, as per		
item No. 37 of receipts	.	2 00
		<hr/>
Balance uncollected Dec. 31, 1883	.	\$905 94

Taxes, 1881.

Balance uncollected Dec. 31, 1882,	\$1,519 42
Received from sundry persons since Dec. 31, 1882, as per item No. 38 of receipts	291 42
	<hr/>
Balance uncollected Dec. 31, 1883	\$1,228 00

Taxes, 1882.

Balance uncollected Dec. 31, 1882,	\$59,639 20
Received from sundry persons since Dec. 31, 1882, as per item No. 39 of receipts	57,653 83
	<hr/>
Balance uncollected Dec. 31, 1883	\$1,985 37

Taxes, 1883.

Amount assessed for State tax	\$24,135 00
Amount assessed for County tax	15,150 75
Amount assessed for City tax	384,420 00
Supplementary as- sessments	174 20
Overlay	3,327 84
Tax on non-resident bank shares	1,096 60
	<hr/>
	\$428,304 39

Received from sundry persons to Dec. 31, 1883, as per item No. 40 of receipts	351,578 82
	<hr/>
Balance uncollected Dec. 31, 1883	\$76,725 57

Temporary Loans

Borrowed during the year, by authority of the City Council (in anticipation of taxes), for the payment of current expenses: —

Jan. 19.	Commonwealth of Massachusetts, at $3\frac{3}{4}$ per cent per annum . .	\$25,000 00
Feb. 16.	Commonwealth of Massachusetts, at $3\frac{7}{8}$ per cent per annum . .	30,000 00
April 4.	Commonwealth of Massachusetts, at $4\frac{1}{8}$ per cent per annum . .	25,000 00
May 1.	Suffolk Savings Bank, at 4 per cent per annum,	40,000 00
June 27.	Blake Brothers & Co., at 4 per cent per annum,	30,000 00
July 6.	Blake Brothers & Co., at 4 per cent per annum,	70,000 00
July 28.	Ballou & Co., at 4 per cent per annum . .	50,000 00
Nov. 9.	Suffolk Savings Bank, at $3\frac{7}{8}$ per cent per annum,	30,000 00
Nov. 28.	Suffolk Savings Bank, at $3\frac{3}{4}$ per cent per annum,	60,000 00

Total, as per item No. 41 of receipts . . \$360,000 00

Received from George A. Torrey, guaranty deposit on account of contract, as per item No. 42 of receipts \$50 00

Tuition for Non-resident Pupils.

Received from sundry non-residents, for tuition, as per item No. 43 of receipts . . . \$523 00

United States Street Lighting Company.

Sept. 27, transferred from guaranty deposit
made by the United States Street Lighting
Company to the city treasury, for non-fulfil-
ment of contract, as per item No. 44 of
receipts \$500 00

Water-Meters and Service-Pipes.

Received from sundry persons, for service-pipe,
meters, etc., as per item No. 46 of receipts . \$5,727 50

Water-Rates.

Received from sundry persons, for use of water
in 1883, by schedule rates, as per item No.
47 of receipts \$30,913 92

Water-Rates, by Meters.

Received from sundry persons, for use of water
in 1883, by meters, as per item No. 48 of
receipts \$18,414 03

STATEMENT IN DETAIL OF EXPENSES, WITH APPROPRIATIONS, TRANSFERS, AND BALANCES.

Almshouse Expenses and Repairs.

Appropriation	\$3,800 00	
Additional appropriation, by order of City Council	500 00	
	<hr/>	\$4,300 00
N. D. Moody, services as warden .	\$600 00	
N. D. Moody, sundry cash pay- ments	283 52	
	<hr/>	
<i>Amounts carried forward</i> .	\$883 52	\$4,300 00

<i>Amounts brought forward</i> .	\$883 52	\$4,300 00
John T. Moody, services at alms- house	140 00	
Allen Young, services at alms- house	91 20	
Julia A. Breck, services at alms- house	30 00	
Hattie Flagg, services at alms- house	23 50	
Maggie Cameron, services at alms- house	57 11	
Lizzie Crompton, services at alms- house	27 00	
Mary Hoy, services at almshouse .	19 20	
Christine Cameron, services at almshouse	28 82	
Katie Holmes, services at alms- house	18 82	
Annie Bettie, services at alms- house	18 00	
Olive Ford, services at almshouse .	15 00	
Ann Haskins, services at alms- house	14 80	
Highway department, for manure .	276 00	
Albert Brackett, for coal	317 77	
J. E. Tolman, exchange of horse .	176 30	
H. H. Hunt, material and labor .	183 75	
American Fire-hose Manufacturing Company, for hose	143 00	
H. W. Spurr & Co., groceries . .	440 89	
H. A. Sherman, groceries	96 26	
B. B. Vassall, groceries	2 99	
W. P. Holden, groceries	1 29	
Edward Fisher, provisions	116 79	
C. W. Randall, provisions	79 74	
<i>Amounts carried forward</i> .	\$3,201 75	\$4,300 00

<i>Amounts brought forward</i>	\$3,201 75	\$4,300 00
George Bleiler, provisions	48 45	
Frank Linnell, fish and oysters	85 16	
E. Smead & Co., grain, etc.	135 14	
W. H. Mague, house-offal	171 00	
L. N. Hatch, material and labor	271 86	
O. F. Lucas, material and labor	35 83	
F. W. Foster, material and labor	20 00	
Milo Lucas, material and labor	20 00	
J. Pulcifer, material and labor	14 70	
R. O. Evans, material and labor	8 53	
C. S. Phillips, material and labor	4 30	
E. E. Moody, supplies	240 63	
A. Pillsbury, jun., supplies	30 41	
Tucker Manuf. Co., supplies	22 40	
Whittemore Brothers, supplies	13 60	
E. C. Holmes & Co., supplies	9 50	
Leonard Hefflon, supplies	5 81	
John McDonald, agent, black-		
smithing	24 68	
C. A. Cole, blacksmithing	19 20	
Scott & Maher, blacksmithing	2 50	
Dr. James Utley, medical attend-		
ance	70 00	
Dr. F. E. Crockett, medical attend-		
ance	2 00	
George H. Gregg, funeral ex-		
penses	18 50	
Smith & Anthony Stove Company,		
range	74 00	
Ralph Severance, cow	50 00	
Heirs of Ann Colburn, wood	38 50	
M. E. Church, rent of pew	30 00	
A. James, crackers	29 94	
Francis Buttrick, lumber	25 01	
<i>Amounts carried forward</i>	\$4,723 40	\$4,300 00

<i>Amounts brought forward</i>	.	\$4,723 40	\$4,300 00
John Wales & Co., fence	.	15 44	
E. L. Crandall, ice	.	15 00	

Total, as per item No. 1 of expenses . . 4,753 84

Balance overdrawn, transferred into treasury . \$453 84

Armory Rent and Expenses.

Appropriation	.	.	.	.	.	.	\$1,200 00
O. W. Turner, rent of armory	.					\$600 00	
B. S. Wetherbee, janitor	.					250 00	
N. & W. Gaslight Company, gas	.					127 00	
George F. Kimball, agent, rent of							
land for rifle range	.	.				25 00	
Albert Brackett, coal	.	.				18 41	
Water department, use of water	.					16 00	

Total, as per item No. 2 of expenses . . 1,036 41

Balance unexpended, transferred into treasury . \$163 59

Auburndale Schoolhouse.

Special appropriation	.	.	.	.	.	.	\$35,000 00
Lydia F. Woodbridge, for land on							
Hancock Street	.	.	.			\$3,668 30	
William H. Stewart, amount paid							
on account of contract	.	.				14,000 00	
J. Foster Ober, services as archi-							
tect,	.	.	.	.	.	800 00	
Water department, use of water	.					20 19	
George H. Pratt, for advertising	.					10 50	
The "Newton Graphic," advertis-							
ing.	.	.	.	.	.	5 62	

Amounts carried forward . \$18,504 61 \$35,000 00

<i>Amounts brought forward</i>	\$18,504 61	\$35,000 00
R. M. Pulsifer & Co., advertising .	5 25	
Journal Newspaper Company, advertising	3 50	
	<hr/>	
Total, as per item No. 3 of expenses	\$18,513 36	

Books, Stationery, and Printing.

Appropriation . . . . .	.	\$2,700 00
Rand, Avery, & Co., printing, etc.	\$406 52	
The "Newton Graphic," printing Auditor's Report, etc.	380 74	
George H. Pratt, printing and advertising	325 59	
Transcript Publishing Company, advertising	137 18	
J. C. Clark Printing Company, printing, etc.	167 48	
George H. Ellis, printing, etc.	63 67	
Fanning Printing Company, printing, etc.	54 25	
P. T. Bartlett, printing, etc.	51 75	
Pulsifer, Jordan, & Wilson, printing, etc.	25 00	
W. S. Varney, printing, etc.	23 50	
Rockwell & Churchill, printing, etc.	4 00	
J. Q. Bradish, pens	35 04	
Fred W. Berry, diaries	15 85	
Drew, Allis, & Co., maps of Newton	12 00	
Newton Post-Office, postal-cards and stamps	14 58	
"Boston Daily Advertiser," subscription	12 00	
	<hr/>	
<i>Amounts carried forward</i>	\$1,729 15	\$2,700 00

<i>Amounts brought forward</i>	\$1,729 15	\$2,700 00
R. M. Pulsifer & Co., advertising.	9 35	
Hooper, Lewis, & Co., check-books, etc.	300 00	
Charles H. Stacy, stamped envelopes, stamps, etc.	249 92	
Thomas Groom & Co., supplies	189 12	
Ward & Gay, supplies	74 25	
J. L. Fairbanks & Co., supplies	51 15	
M. R. Warren, supplies	43 35	
A. L. Shipman's Sons, supplies	16 75	
The Hektograph Manufacturing Co., supplies	13 00	
Belknap & Co., supplies	6 22	
Eben Smith, supplies	5 80	
Knight, Adams, & Co., supplies	5 54	
A. W. Mitchell, supplies	3 75	
U. Holzer	2 50	
	<hr/>	
Total, as per item No. 4 of expenses		2,699 85
Balance unexpended, transferred into treasury		<hr/> \$15

Board of Health.

Appropriation		\$2,300 00
Nathan Mosman, services as health officer	\$800 00	
Nathan Mosman, sundry cash ex- penses	4 14	
William H. Mague, collecting house-offal	1,200 00	
Dr. Eben Thompson, professional services	6 00	
Dr. F. E. Crockett, professional services	4 00	
	<hr/>	
<i>Amounts carried forward</i>	\$2,014 14	\$2,300 00

<i>Amounts brought forward</i>	\$2,014 14	\$2,300 00
Dr. F. D. Lord, professional services	1 00	
Dr. James Utley, professional services	1 00	
Transcript Publishing Company, advertising, etc.	65 00	
The "Newton Graphic," advertising, etc..	28 00	
George H. Pratt, advertising, etc.,	11 50	
C. S. Phillips, painting building .	50 25	
William Dix, carriage	25 00	
E. O. Childs, making returns .	6 00	
H. H. Hunt, repairs on building .	13 45	
John Rooney, burying dog . . .	1 00	

Total, as per item No. 5 of expenses . . . 2,216 34

Balance unexpended, transferred into treasury . \$83 66

Burial-Grounds.

Appropriation	\$500 00
Newton Cemetery Corporation, material and labor. . . .	\$395 00

Total, as per item No. 6 of expenses . . . 395 00

Balance unexpended, transferred into treasury . \$105 00

Conveyance of Pupils.

Appropriation	\$650 00
A. M. Fuller	\$540 00
Henry A. Spear	60 00

Total, as per item No. 7 of expenses . . . 600 00

Balance unexpended, transferred into treasury, \$50 00

Curbing.

Appropriation . . . . .	.	.	.	.	.	.	\$1,500 00
Noah Prescott, curbstone . . .						\$865 70	
John A. Kenrick, treasurer, paid for labor, highway depart- ment						467 60	
Boston and Albany Railroad, freight						166 70	
<hr/>							
Total, as per item No. 8 of expenses						\$1,500 00	

City Hall Expenses.

Appropriation . . . . .	.	.	.	.	.	.	\$1,600 00
N. & W. Gaslight Company, gas .						\$563 00	
Albert Brackett, coal						407 27	
J. D. Wellington, sundry cash ex- penses						160 81	
Water department, use of water .						77 00	
Thomas Canfield, cleaning cess- pool						60 00	
L. J. Kendall, ice						30 00	
Orville Tyler, thermometers . .						28 00	
Elliott Pneumatic Door-check Com- pany, door-check						16 50	
William Quinn, manure						10 00	
C. H. Jenison, expressage						9 55	
Daniel Condren, wood						7 00	
H. W. Wellington, supplies . . .						4 25	
H. H. Hunt, material and labor .						233 55	
W. H. French & Co., material and labor						28 68	
C. S. Phillips, material and labor .						11 55	
F. H. Humphrey, material and la- bor						10 00	
<hr/>							
<i>Amounts carried forward</i> . . .						\$1,657 16	\$1,600 00

<i>Amounts brought forward</i>	\$1,657 16	\$1,600 00
William Petigrew, material and labor	8 34	

Total, as per item No. 9 of expenses . . 1,665 50

Balance overdrawn, transferred into treasury . \$65 50

City Engineer's Department.

Appropriation		\$6,000 00
Albert F. Noyes, services as city engineer	\$2,000 00	
Harry D. Woods, services as assistant engineer	865 00	
Fred H. Barnes, services as assistant engineer	865 00	
William S. French, services as assistant engineer	650 00	
I. W. Hastings, services as assistant engineer	415 00	
William P. Morse, services as assistant engineer	305 00	
Arthur Woodruff, services as assistant engineer	197 00	
Stephen Child, services as assistant engineer	41 00	
Incidental repairs, travelling expenses, etc., of engineer and assistants	252 91	
David Jackson, horse	250 00	
H. W. Crowell, grain	150 30	
Albert Brackett, hay	48 61	
G. D. Dix, hay	17 91	
J. R. McLaughlin, care of sick horse	16 00	
<i>Amounts carried forward</i>	\$6,073 73	\$6,000 00

<i>Amounts brought forward</i>	.	\$6,073 73	\$6,000 00
S. F. Cate, use of teams	.	33 75	
W. H. Mague, use of teams	.	15 50	
C. G. Tinkham, use of teams	.	7 50	
Buff & Berger, supplies	.	41 25	
Frost & Adams, supplies	.	29 00	
Sabin & Page, supplies	.	14 00	
Thomas Hall, supplies	.	8 50	
Chandler & Farquhar, supplies	.	6 60	
McClure & Field, supplies	.	8 26	
J. Carroll, material and labor	.	16 41	
A. W. Ward, blacksmithing	.	7 90	
C. A. Cole, blacksmithing	.	5 00	
C. H. Jenison, expressage	.	2 40	
		<hr/>	
Total, as per item No. 10 of expenses	.		6,269 80
			<hr/>
Balance overdrawn, transferred into treasury	.		\$269 80

Drains and Culverts.

Appropriation	.	\$14,000 00	
Transferred to appropriation for highway general repairs	.	2,000 00	
		<hr/>	\$12,000 00
John A. Kenrick, treasurer, labor, men, and teams, highway de- partment	.	\$6,488 04	
F. E. Hamblin, drain-pipe, etc.	.	2,195 66	
M. W. Sands, brick	.	673 44	
H. W. Clapp & Co., sewer-caps	.	424 38	
Waldo Brothers, cement	.	295 96	
G. F. Frost, brick	.	264 50	
John Foster, laying brick	.	245 60	
Noah Prescott, covering stone	.	104 93	
Boston and Albany R.R., freight	.	86 44	
		<hr/>	
<i>Amounts carried forward</i>	.	\$10,778 95	\$12,000 00

<i>Amounts brought forward</i>	\$10,778 95	\$12,000 00
N. Y. and N. E. R.R., freight	36 00	
Gilkey & Stone, lumber	69 21	
J. G. Gooch, lumber	34 19	
Simpson Brothers, concreting	83 99	
Higgins & Nickerson, material and labor	232 81	
Isaac Smith, material and labor	162 47	
R. J. Morrisey, material and labor,	66 00	
Stephen Holmes, material and labor	42 85	
Allen Jordan, material and labor	34 81	
Samuel D. Garey, material and labor	28 13	
Milo Lucas, material and labor	26 75	
William Petigrew, material and labor	26 45	
Patrick Grace, stone	68 00	
Murray & Farrell, blacksmithing	61 20	
Scott & Maher, blacksmithing	9 77	
James E. Cahill, carting cement	20 00	
Timothy Stuart, carting cement	14 63	
Boynton and Fellows, supplies	68 20	
G. P. Atkins, supplies	15 40	
C. W. Morehouse, supplies	15 10	
McClure & Field, supplies	12 50	
F. W. McAleer, supplies	7 50	
Chandler & Farquhar, supplies	6 84	
Sundry small bills	7 91	
<hr/>		
Total, as per item No. 11 of expenses		11,929 66
		<hr/>
Balance unexpended, transferred into treasury.		\$70 34

Evening Schools.

Appropriation	\$650 00
Levi F. Warren, teacher	\$102 00
Nellie P. Warren, teacher	60 00
Emma B. Wilkins, teacher	60 00
Charlotte M. Wilkins, teacher	60 00
Nellie B. Rand, teacher	58 50
Langdon F. Ward, teacher	48 00
Sarah M. Davis, teacher	31 50
Mary L. Woodburn, teacher	30 00
M. Alice Warren, teacher	12 00
John B. Gifford, teacher	4 00
John McCamman, janitor	30 00
Knight, Adams, & Co., supplies	18 19
A. G. Whitcomb, supplies	6 70
H. F. Wellington, material and labor	1 50
B. C. Kilburn, posting notices	1 00
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Total, as per item No. 12 of expenses	523 39
<hr/>	
Balance unexpended, transferred into treasury	\$126 61

Farlow Park.

Expended, by order of the City Council, for the purchase of the following estates, on account of Farlow Park:—

Estate of the late James French on Vernon Street, Ward 7	\$13,000 00
Estate of the late Lysander A. Ellis on Vernon Street, Ward 7	12,000 00
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Total, as per item No. 13 of expenses	\$25,000 00

Farlow Park Special Appropriation.

Appropriated from city treasury amount received for sale of houses, etc., by order of City Council	\$3,150 50	
Appropriated from city treasury amount received for premium on \$25,000 park bonds, by order of City Council . . .	952 50	
Transferred from appropriation for improvement on public squares,	1,225 00	
	<hr/>	\$5,328 00
Alexander McDonald, curbing . .	\$1,502 40	
Timothy Stuart, labor, men, and teams	1,291 60	
William H. Mague, labor, men, and teams	565 95	
John A. Kenrick, treasurer, labor, highway department, as per pay-rolls	404 39	
John Joyce, labor, men, and teams,	301 50	
C. McBride, labor, men, and teams,	273 50	
Dennis Leahy, labor, men, and teams	33 00	
Thomas Stuart, services as superin- tendent	148 50	
W. S. French, services as assistant city engineer	65 00	
W. P. Morse, services as assistant city engineer	35 00	
Arthur Woodruff, services as assist- ant city engineer	25 00	
J. L. Knox, services as stone-cutter,	16 00	
Scott & Maher, blacksmithing . .	15 30	
	<hr/>	
<i>Amounts carried forward</i> . .	\$4,677 14	\$5,328 00

<i>Amounts brought forward</i>	\$4,677 14	\$5,328 00
John W. Soals, settlement for personal injuries	50 00	
S. K. Hitchcock, loam, etc. . . .	519 94	
F. G. Barnes & Son, selling estates,	47 98	
C. W. Loring <i>et al.</i> , trustees, value of policy of insurance	4 25	
R. J. Morrissey, material and labor,	4 10	
R. O. Evans, material and labor	4 00	
G. P. Atkins, supplies	5 65	
C. W. Morehouse, supplies	2 85	
Stephen F. Cate, use of teams	5 00	
B. F. Burgess, expressage	1 50	
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Total, as per item No. 14 of expenses		5,322 41
<hr/>		
Balance unexpended, transferred into treasury,		\$5 59

Fire Department.

Appropriation	\$24,000 00	
Additional appropriation by order of City Council	97 51	
<hr/>		\$24,097 51
Henry L. Bixby, chief of department	\$1,400 06	
William Bemis, assistant chief of department,	300 00	
<hr/>		\$1,700 06

STEAMER NO. 1.

F. E. Judkins, engineer,	\$949 93	
H. C. Lindley, substitute engineer	36 54	
H. C. Lindley, substitute engineer	2 61	
<hr/>		
<i>Am'ts carried forward</i>	\$989 08	\$1,700 06
		\$24,097 51

<i>Am'ts brought forward,</i>	\$989 08	\$1,700 06	\$24,097 51
F. H. Harrington, driver,	750 00		
John Murphy, substitute driver	28 84		
H. C. Lindley, stoker .	95 83		
W. P. Leavitt, substitute stoker	2 92		
E. P. Leavitt, substitute stoker	1 25		
F. D. Graves, foreman .	90 00		
C. W. H. Boulton, assist- ant foreman and sec- retary	75 00		
E. P. Burnham, hose- man	70 00		
R. J. Morrisey, hoseman,	70 00		
O. A. Chick, hoseman .	70 00		
N. R. Sylvester, hose- man	70 00		
E. P. Leavitt, hoseman .	70 00		
John McCamman, hose- man	58 32		
E. T. Flaherty, hoseman,	43 75		
A. P. Spencer	40 83		
F. E. Liddell	5 83		
	<hr/>	2,531 65	

STEAMER NO. 2.

R. S. Cummings, engi- neer	\$949 93
H. C. Lindley, substitute engineer	36 54
C. L. Berry, driver .	750 00
John Murphy, substitute driver	28 84

<i>Am'ts carried forward,</i>	\$1,765 31	\$4,231 71	\$24,097 51
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<i>Am'ts brought forward,</i>	\$1,765 31	\$4,231 71	\$24,097 51
G. K. Stacy, stoker	100 00		
George H. Haynes, foreman	90 00		
F. H. Humphrey, assistant foreman and secretary	75 00		
J. Q. A. Hawkes, hoseman	70 00		
W. F. Rand, hoseman	70 00		
R. J. Riley, hoseman	70 00		
T. W. Alfred, hoseman	70 00		
F. T. Burgess, hoseman,	64 17		
C. V. Knowles, hoseman,	58 33		
H. Nicholl, hoseman	49 50		
C. J. Crowley, hoseman	40 83		
C. M. Kibbe, hoseman	35 00		
J. P. Crosby, hoseman	32 17		
A. F. A. G. Libbey, hoseman	5 83		
	<hr/>	2,596 14	

STEAMER NO. 3.

A. D. Colby, engineer	\$949 93
J. Foley, substitute engineer	36 54
A. C. Jewett, driver	750 00
J. Foley, substitute driver	28 84
J. Foley, substitute driver (Jewett sick)	62 50
A. C. Jewett, paid for substitute driver	23 76

<i>Am'ts carried forward,</i>	\$1,851 57	\$6,827 85	\$24,097 51
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<i>Amt's brought forward,</i>	\$1,851 57	\$6,827 85	\$24,097 51
C. A. Peck, stoker	83 33		
W. A. Thompson, stoker, . . .	16 67		
G. F. Richardson, fore- man	90 00		
S. F. Chadbourne, assist- ant foreman and sec- retary	75 00		
D. McDonald, hoseman, . . .	70 00		
C. B. Garey, hoseman . . .	70 00		
William Bliss, hoseman, . . .	70 00		
T. R. Frost, hoseman . . .	70 00		
C. Polley, hoseman . . .	70 00		
W. A. Thompson, hose- man	58 33		
E. Frost, hoseman . . .	49 58		
A. J. Roach, hoseman . . .	46 66		
A. I. English, hoseman . . .	23 33		
C. Thompson, hoseman, . . .	20 42		
C. A. Peck, hoseman . . .	11 67		
	<hr/>	2,676 56	

HOOK AND LADDER NO. 1.

Charles Murphy, driver, . . .	\$750 00
John Murphy, substitute driver	28 84
W. S. Higgins, foreman, . . .	90 00
F. B. Sisson, assistant foreman and secre- tary	75 00
J. H. Williams, ladder- man	70 00
O. Dow, ladderman . . .	70 00
T. C. Nickerson, ladder- man	70 00

<i>Amt's carried forward,</i>	\$1,153 84	\$9,504 41	\$24,097 51
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<i>Am'ts brought forward,</i>	\$1,153 84	\$9,504 41	\$24,097 51
H. J. Williams, ladder-			
man	70 00		
J. Beal, ladderman	70 00		
U. H. Dyer, ladderman	70 00		
C. Coleman, ladderman	70 00		
J. F. Horrigan, ladder-			
man	46 67		
J. H. Gilman, ladder-			
man	46 66		
T. B. Watts, ladderman,	46 66		
M. McLeod, ladderman,	23 33		
J. Murphy, ladderman	17 50		
	<hr/>	1,614 66	

HOSE COMPANY NO. 4.

J. E. Watson, driver	\$333 36		
J. Murphy, substitute			
driver	19 20		
E. C. Waterhouse, fore-			
man	90 00		
Joseph Fontaine, assist-			
ant foreman and			
secretary	43 75		
E. P. Bessie, assistant			
foreman and hose-			
man	70 40		
Daniel Archibald, hose-			
man	70 00		
John Deary, hoseman	52 50		
A. J. Wardless, hose-			
man	29 16		
J. F. Horrigan, hoseman,	23 33		
J. E. Watson, hoseman	23 32		
J. H. Maynard, hoseman,	17 50		
	<hr/>	772 52	

<i>Amounts carried forward</i>	<hr/>	\$11,891 59	<hr/>	\$24,097 51
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Amounts brought forward . . \$11,891 59 \$24,097 51

HOSE COMPANY NO. 5.

William F. Soule, foreman . . .	\$90 00	
J. F. Washburne, assistant foreman and secretary . .	75 00	
John Frost, hoseman .	70 00	
Charles A. Drake, hoseman . . .	46 66	
J. M. Taylor, hoseman .	29 17	
L. H. Spaulding, hoseman . . .	23 33	
	<hr/>	334 16

HOSE COMPANY NO. 6.

Bernard Early, foreman,	\$90 00	
Charles S. Morse, assistant foreman and secretary . .	43 75	
H. H. Miles, assistant foreman and hoseman . .	66 24	
Daniel J. Corcoran, hoseman . . .	70 00	
P. E. O'Neal, hoseman .	64 16	
D. J. Cooney, hoseman .	52 50	
G. T. Clatworthy, hoseman . . .	29 17	
B. C. Fisher, hoseman .	5 83	
William B. Kenney, hoseman . . .	5 83	
Fred H. Smith, hoseman,	5 83	
	<hr/>	433 31

Amounts carried forward . . \$12,659 06 \$24,097 51

Amounts brought forward . . \$12,659 06 \$24,097 51

HOSE COMPANY NO. 7.

W. S. Cargill, foreman .	\$90 00	
Harley A. Smith, assistant foreman and secretary . . .	75 00	
J. E. Trowbridge, hoseman	70 00	
J. T. Thomason, hoseman	70 00	
A. M. Fuller, hoseman .	70 00	
A. E. Easterbrook, hoseman	70 00	
	<hr/>	445 00
14 firemen, extra services, July 4 .		42 00

REPAIRS, SUPPLIES, AND INCIDENTALS.

J. E. Tolman, exchange on horses,	\$275 00	
E. Ham & Co., exchange on horses,	200 00	
Albert Brackett, grain . . .	884 91	
C. F. Eddy & Co., grain . . .	682 59	
H. W. Crowell, grain .	672 48	
E. Smead & Co., grain .	219 50	
R. M. Flint, hay . . .	202 38	
G. & L. Miles, hay .	31 82	
Water department, use of water .	199 50	
N. & W. Gaslight Company, gas .	288 75	
American Fire-hose Manufacturing Company, hose, etc. . . .	916 00	
Abbot Downing Company, repairs on hose-carriage	207 00	
J. R. McLaughlin, care of sick horses	151 00	
Albert Brackett, coal and wood .	982 52	
Hills & Bullens, coal and wood .	44 75	

Amounts carried forward . . \$19,104 26 \$24,097 51

<i>Amounts brought forward</i>	.	\$19,104 26	\$24,097 51
C. F. Eddy & Co., coal and wood .		30 75	
Alms-house department, wood .		15 10	
George Warren & Co., wood .		11 00	
T. W. Nickelson, wood		5 75	
Cairns & Brother, helmets . . .		62 25	
T. S. Nowell, Holland service-pipe,		50 00	
Charles E. Berry, 2 pairs hames .		50 00	
C. F. Shourds & Co., feather-			
dusters		40 50	
William C. Smith, quick hitches .		36 00	
G. W. Hawkes, use of wagon .		31 00	
F. E. Judkins, castings, spring, etc.,		31 50	
Sabin & Page, blankets, etc. . .		27 00	
Seccomb, Kehew, & Sons, oil .		24 00	
Manchester Locomotive Works,			
gong		22 00	
Charles Murphy, extra labor at hook			
and ladder house		20 00	
Leander Barber, brooms		20 00	
Charles Murphy, buggy, etc. . .		18 50	
Sherburne & Co., waste		18 56	
W. H. Bustin, horse-collars . . .		12 00	
H. L. Bixby, sundry cash expenses,		11 90	
F. E. Jenison, soap		11 15	
J. Smith & Co., nock boots . . .		10 00	
Morss & Whyte, wire-basket . . .		8 50	
J. Boyd & Sons, steel ring-bits . .		7 50	
Beder, Adamson, & Co., emery-			
cloth		5 40	
Mrs. S. E. Shattuck, repairing			
coats		5 25	
J. N. Danforth, horse-salve . . .		4 00	
J. L. Randall and other, snow from			
hydrants		4 00	
<i>Amounts carried forward</i>	.	\$19,697 87	\$24,097 51

<i>Amounts brought forward</i>	. \$19,697 87	\$24,097 51
American Steam Gauge Company, repairing whistle	3 50	
Lustralis Manufacturing Co., oil .	8 25	
J. Breck & Sons, jack	4 50	
Scrannage Bros. & Cook, gong-bell,	4 60	
T. W. Alfred, badge returned .	3 50	
F. O. Dewey & Sons, lantern globes,	3 25	
M. Gorman, clipping horse . .	3 00	
C. W. H. Moulton & Co., step- ladder	2 80	
Milo Lucas, sawdust	2 75	
Boston Nickel Plating Co., plating,	2 50	
J. Bowmas, watching fires . .	2 50	
J. Hurley, watching fires . .	2 50	
L. J. Kendall, ice	10 50	
George H. Ellis, ice	7 50	
Howard Brothers, ice	6 30	
C. H. Jenison, expressage . .	17 00	
Bullard's Express, expressage .	3 50	
Eames's Express, expressage. .	2 75	
J. Carroll, material and labor .	68 09	
F. H. Humphrey, material and labor	42 97	
Pettee Machine Works, material and labor	39 86	
Ryan Brothers, material and labor,	28 95	
M. S. Hodgson, material and labor,	21 10	
Peter Grey, material and labor .	20 00	
William Welch, material and labor,	15 00	
D. W. Brownell, material and labor,	14 20	
Hunniman & Co., material and labor	12 00	
George Fuller, material and labor,	10 50	
Isaac Smith, material and labor .	8 00	
<i>Amounts carried forward</i>	. \$20,069 74	\$24,097 51

<i>Amounts brought forward</i>	\$20,069 74	\$24,097 51
J. H. Williams, material and labor,	6 70	
Higgins & Nickerson, material and labor	6 12	
R. J. Morrisey, material and labor,	6 00	
C. J. Crowley, material and labor .	5 00	
Cranitch & Horrigan, material and labor	4 25	
C. S. Phillips, material and labor .	4 00	
Adam Beck, material and labor .	3 90	
Whittier Machine Company, material and labor	3 55	
H. H. Hunt, material and labor .	2 84	
B. F. Barlow, blacksmithing .	27 10	
Scott & Maher, blacksmithing .	24 97	
Charles A. Cole, blacksmithing .	24 82	
A. W. Ward, blacksmithing .	22 95	
P. A. McVicar, blacksmithing .	15 50	
J. C. Farrar, blacksmithing .	11 75	
A. Danforth, agent, blacksmithing,	5 50	
D. Harrington & Son, use of teams,	57 00	
Stephen F. Cate, use of teams .	50 00	
S. L. Pratt, use of teams . .	37 00	
W. H. Mague, use of teams .	16 00	
Nonantum Stables, use of teams .	14 00	
William Weir, use of teams .	8 00	
S. P. Whitman, agent, use of teams,	8 00	
C. McBride, use of horse . .	21 77	
Timothy Stuart, use of horses .	21 39	
B. McFaden, use of horses . .	21 00	
John Joyce, use of horses . .	9 00	
J. D. Watson, use of horses .	8 75	
Dennis Lahey, use of horses .	7 38	
Daniel Murphy, use of horses .	3 50	
Mrs. William Bliss, laundry-work .	50 33	
<i>Amounts carried forward</i>	\$20,577 81	\$24,097 51

<i>Amounts brought forward</i>	. \$20,577 81	\$24,097 51
Charles Murphy, laundry-work	. 43 36	
Mary A. Crowley, laundry-work	. 43 24	
F. H. Harrington, laundry-work	. 40 45	
Mrs. F. B. Reed, laundry-work	. 37 30	
Harley A. Smith, laundry-work	. 23 94	
Mrs. Margaret Smith, laundry-work	. 19 25	
E. B. Blackwell, laundry-work	. 2 00	
R. H. White & Co., supplies	. 55 57	
George H. Ingraham, supplies	. 37 65	
H. E. Woodbury, supplies	. 16 86	
C. W. Morehouse, supplies	. 16 83	
W. C. Gaudet, supplies	. 12 53	
H. W. Wellington, supplies	. 11 77	
B. F. Houghton, supplies	. 10 39	
J. E. Trowbridge, supplies	. 9 72	
G. Wadleigh, supplies	. 7 22	
J. J. Noble, supplies	. 6 81	
W. O. Knapp & Co., supplies	. 5 85	
Thayer & Stiles, supplies	. 5 32	
T. R. Frost, supplies	. 4 88	
L. A. Roach, supplies	. 4 50	
I. H. Snow, supplies	. 4 40	
A. & E. Burton & Co., supplies	. 4 00	
Gilman Brothers, supplies	. 4 00	
J. A. & W. Bird & Co., supplies	. 3 50	
C. F. Rogers, supplies	. 3 25	
W. D. Higgins, supplies	. 2 96	
A. Pillsbury, jun., supplies	. 2 55	
P. H. Graves & Son, supplies	. 2 50	
Gould Packing Company, supplies,	2 40	
H. B. Coffin, supplies	. 2 25	
W. J. Wilson, supplies	. 2 25	
Sundry small bills	. 13 11	

<i>Amounts carried forward</i>	. \$21,040 42	\$24,097 51
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Amounts brought forward . \$21,040 42 \$24,097 51

FIRE-ALARM TELEGRAPH.

G. W. Ulmer, fire-alarm telegraph-operator .	\$1,000 00
Edwin Rogers, apparatus for fire-alarm steam- whistle, two signal- boxes, etc. . . .	926 70
Thomas Gooch, tele- graph-poles . . .	160 00
Abiel Pevey, vitriol, etc.,	149 36
W. H. Swift & Co., vitriol, etc. . . .	61 23
J. A. & W. Bird & Co., vitriol	31 50
C. L. Bly, wire, etc. .	60 03
Washburne & Moen Manufacturing Co., wire	44 60
American Steam Gauge Co., whistle . . .	40 00
M. G. Crane, material and labor . . .	65 95
H. H. Hunt, material and labor	27 75
F. H. Humphrey, mate- rial and labor . .	19 90
C. A. Cole, material and labor	10 00
C. S. Phillips, material and labor . . .	8 38
J. C. Farrar, material and labor	5 85

Am'ts carried forward, \$2,611 25 \$21,040 42 \$24,097 51

<i>Am'ts brought forward,</i>	\$2,611 25	\$21,040 42	\$24,097 51
Milo Lucas, material and labor . . .	5 60		
Timothy Stuart, labor, men, and teams .	25 90		
Charles Dolan, labor .	61 25		
John McCarthy, labor .	41 13		
George Lynn, labor .	30 63		
E. Kelly, labor . .	28 88		
J. Atkins, labor . .	25 38		
J. Foley, substitute fire-alarm operator .	5 48		
A. W. Mitchell, supplies,	6 30		
Charles Williams, supplies . . .	6 00		
H. Ginnel & Co., supplies . . .	5 00		
N. & W. Gaslight Co., gas. . . .	13 00		
Hills & Bullens, coal .	6 75		
Dillingham's Express, expressage . .	3 60		
B. & A. Railroad, freight,	3 29		
Sundry small bills. .	17 93		
	<hr/>	2,897 37	

Total, as per item No. 15 of expenses . 23,937 79

Balance unexpended, transferred into treasury . \$159 72

Funded Debt.

Paid to Boston Five Cents Savings Bank, town of Newton, note 6½ per cent, due April 1 .	\$40,000 00
Paid to Commonwealth of Massachusetts, town of Newton, note 6 per cent, due April 1 .	30,000 00
Total, as per item No 16 of expenses .	<hr/> \$70,000 00

Gravel Land.

Appropriation	\$10,000 00	
Transferred to appropriation for highway general repairs . . .	800 00	
	<hr/>	\$9,200 00
William P. and Benjamin Bourne, gravel land	\$7,217 40	
George P. Hammell, gravel land .	1,500 00	
John A. Kenrick treasurer, labor, men, and teams, highway de- partment	250 00	
William Wiswall, gravel . . .	40 00	
Michael Dolan, gravel	32 70	
Benjamin Bourne, gravel . . .	28 70	
Arthur Muldoon, gravel	27 00	
Caleb Crafts's heirs, gravel . . .	18 75	
Michael Lester, gravel	18 60	
William Walsh, gravel	12 20	
Patrick Shea, gravel	9 15	
F. E. Hamblin, sand	14 25	
William F. Doyle, gravel	5 10	
	<hr/>	
Total, as per item No. 17 of expenses . . .		9,173 85
		<hr/>
Balance unexpended, transferred into treasury . .		\$26 15

Heating, Ventilating, Repairs, etc., on Schoolhouses.

Appropriation		\$17,500 00
George K. Paul & Co., material and labor	\$6,335 00	
C. H. & A. F. Ireland, material and labor	4,399 55	
Isaac Smith & Daniel Hurley, ma- terial and labor	3,915 80	
Alfred Hopkins, material and labor,	760 00	
	<hr/>	
<i>Amounts carried forward</i> . . .	\$15,410 35	\$17,500 00

<i>Amounts brought forward</i>	\$15,410 35	\$17,500 00
A. W. Snow, material and labor	608 67	
Higgins & Nickerson, material and labor	213 00	
Milo Lucas, material and labor	116 41	
James McGourty, material and labor	105 37	
W. A. Fogwell, material and labor,	43 35	
H. F. Wellington, material and labor	27 71	
W. J. Wilson, material and labor	16 37	
Isaac Smith, material and labor	13 42	
W. H. French & Co., material and labor	10 23	
M. Taffe, material and labor	5 30	
Charles Scott, material and labor	5 00	
John A. Kenrick, treasurer, pay-rolls for labor	479 51	
Timothy Stuart, labor, men, and teams	12 00	
Fiske & Coleman, supplies	111 67	
Waldo Brothers, supplies	71 30	
G. F. Frost, supplies	69 00	
C. W. Boynton, supplies	68 90	
Thayer & Stiles, supplies	27 43	
M. Pond & Co., supplies	17 50	
Fulton Foundry Co., supplies	15 00	
T. Pickthall, supplies	10 00	
Davis & Farnum Manufacturing Co., supplies	6 28	
N. Y. and N. E. Railroad, freight	60	
Total, as per item No. 18 of expenses		17,464 37
Balance unexpended, transferred into treasury		\$35 63

Highways, General Repairs.

Appropriation	\$55,000 00	
Transferred from receipts, by order of City Council	5,145 79	
Transferred from appropriation for drains and culverts, by or- der of City Council	2,000 00	
Transferred from appropriation for gravel land, by order of City Council	800 00	
Transferred from appropriation for land damages, by order of City Council	800 00	
	<hr/>	\$63,745 79
William E. Fuller, superintendent of streets	\$1,400 00	
William E. Fuller, sundry cash expenses	6 00	
John J. Ware, assistant superin- tendent of streets	860 75	
John A. Peck, assistant superin- tendent of streets	860 75	
George E. Stuart, assistant super- intendent of streets	996 75	
Samuel M. Jackson, assistant super- intendent of streets	91 63	
John A. Kenrick, treasurer, amount paid laborers on discharged tickets	5,169 29	
John A. Kenrick, treasurer, amount paid laborers upon highways, as per pay-rolls	33,158 34	
Simpson Brothers, concreting	974 69	
Noah Prescott, flagstone	172 29	
C. F. Eddy & Co., grain, etc.	1,889 55	
	<hr/>	
<i>Amounts carried forward</i>	\$45,580 04	\$63,745 79

<i>Amounts brought forward</i>	. \$45,580 04	\$63,745 79
Albert Brackett, grain, etc. . . .	922 02	
H. W. Crowell, grain, etc. . . .	686 49	
E. Smead & Co., grain, etc. . . .	135 50	
Cousens Brothers, hay	759 81	
Almshouse department, hay, etc. .	256 65	
George D. Dix, hay, etc. . . .	254 66	
A. B. Potter, hay, etc. . . .	227 87	
Granville Miles, hay, etc. . . .	212 74	
H. B. Braman, hay, etc. . . .	186 95	
N. B. Douglass, hay, etc. . . .	157 10	
F. A. Collins, hay, etc. . . .	155 86	
William Dix, hay, etc. . . .	59 85	
Samuel M. Jackson, hay, etc. . . .	47 37	
David Hall, hay	96 18	
M. C. Morrell, hay	91 18	
J. Connell, hay	76 52	
L. C. Tolman, hay	64 68	
G. & L. Miles, hay	61 95	
C. H. Hale, hay	52 05	
G. E. Johnson, hay	46 86	
A. L. Hale, hay	25 61	
Leonard Hurd, straw	25 05	
William Stearns, straw	23 25	
Ezra Hawkes, straw	11 70	
Johnson & Keyes, straw	7 29	
J. C. Donelan, treasurer, patent food	6 00	
David Jackson, exchange of horses,	674 00	
Lewis E. Felton, pair horses. . .	510 00	
J. E. Tolman, horse	275 00	
Patrick Brennan, horse	225 00	
J. R. McLaughlin, care of sick horses	180 00	
M. Bunker, care of sick horses .	22 00	
<i>Amounts carried forward</i>	. \$52,117 23	\$63,745 79

<i>Amounts brought forward</i>	. \$52,117 23	\$63,745 79
John Pulcifer, six carts	. . 600 00	
John J. Ware, use of horse and carriage	. . . . 200 00	
Water department, use of water	. 129 50	
N. & W. Gaslight Company, gas	. 124 75	
J. H. Whitney, chestnut posts	. 172 33	
Ames Plow Company, tools, etc.	. 796 63	
H. M. Darling & Co., tools, etc.	. 193 75	
Dodge, Gilbert, & Co., tools, etc.	. 156 23	
Dodge, Haley, & Co., tools, etc.	. 11 70	
Farrell Foundry and Machine Company, chills and plates	. . 147 69	
Manchester Mills, watering-cart	. 100 00	
Rockwell & Moseley, powder and fuse	. . . . 106 00	
George A. Goodyear, powder and fuse	. . . . 53 40	
Boston and Albany Railroad, freight	. . . . 70 64	
Thomas B. Adams & Co., leather belting	. . . . 61 72	
Vacuum Oil Company, oil	. . 46 50	
Butchers' Slaughtering and Melting Association, oil	. . 11 50	
W. L. Dudley, curry-combs and brushes	. . . . 35 00	
C. S. Packard, four drags	. . 32 00	
Morss & Whyte, gravel screens	. 36 00	
N. & W. Gaslight Company, iron pipe	. . . . 23 00	
John Mulliken & Co, waste	. . 22 06	
W. H. Bustin. horse-collars	. . 19 50	
J. N. Danforth, horse-salve	. . 12 24	
Gilkey and Stone, lumber	. . 12 22	
<i>Amounts carried forward</i>	. \$55,291 59	\$63,745 79

<i>Amounts brought forward</i>	. \$55,291 59	\$63,745 79
Leander Barber, brooms . . .	12 00	
Dr. J. R. Deane, attendance upon J. Coffee	6 00	
Gould Packing Company, packing, Town of Wellesley, half expense on bridge	4 67	
Quincy Harrington, filing saws .	4 49	
C. L. Berry, clipping horse . . .	3 90	
F. H. Harrington, clipping horse .	3 00	
Samuel M. Jackson, labor, men, and teams	3 00	
Timothy Stuart, labor, men, and teams	75 98	
Dennis Lahey, labor, men, and teams	65 63	
J. Joyce, labor, men, and teams .	16 18	
James Mullen, labor, men, and teams	15 75	
J. Cunningham, labor, men, and teams	11 50	
G. W. Bush, horse and carriage hire	8 00	
J. Frank Makee, horse and carriage hire	16 00	
S. F. Cate, horse and carriage hire,	16 00	
W. H. Mague, horse and carriage hire	14 50	
Nonantum Stables, horse and car- riage hire	10 00	
D. Harrington & Son, horse and carriage hire	7 00	
N. & W. Gaslight Company, coal .	2 00	
Trowbridge & Hill, coal . . .	218 65	
T. W. Nickelson, coal	18 46	
	14 50	
<i>Amounts carried forward</i>	. \$55,838 80	\$63,745 79

<i>Amounts brought forward</i>	. \$55,838 80	\$63,745 79
Hills & Bullens, coal	7 00	
Albert Brackett, coal	6 75	
J. W. Pearson, coal	3 50	
Waters & Inman, wood and coal .	27 62	
George Warren & Co., wood and coal	46 70	
Daniel McNamara, wood	8 50	
C. H. Jenison, expressage	14 98	
C. H. Hurd, expressage	7 20	
Andrew Peters, blacksmithing .	897 09	
J. C. Farrar, blacksmithing . . .	894 07	
Murray & Farrell, blacksmithing .	874 25	
Thomas Belger, blacksmithing . .	295 64	
Scott & Maher, blacksmithing . .	262 76	
B. F. Barlow, blacksmithing . . .	258 46	
Charles A. Cole, blacksmithing . .	210 73	
J. McFaden, blacksmithing . . .	209 95	
D. J. O'Donnell, blacksmithing . .	84 38	
J. E. Keegan, blacksmithing . . .	56 97	
John Pulcifer, blacksmithing . . .	53 02	
Lane & McFaden, blacksmithing . .	33 62	
P. A. McVicar, blacksmithing . . .	30 26	
A. Danforth, agent, blacksmithing,	17 25	
A. W. Ward, blacksmithing	9 50	
John McDonald, agent, blacksmith- ing	3 75	
J. Carroll, material and labor . .	249 74	
S. D. Garey, material and labor . .	215 72	
William Petigrew, material and labor	127 83	
Higgins & Nickerson, material and labor	114 20	
R. J. Morrisey, material and labor,	101 81	
T. F. Glennan, material and labor,	97 45	
<i>Amounts carried forward</i>	. \$61,104 50	\$63,745 79

<i>Amounts brought forward</i>	. \$61,104 50	\$63,745 79
W. E. Porter, material and labor	. 94 35	
Pettee Machine Works, material and labor	. 83 09	
H. L. White, material and labor	. 81 15	
Milo Lucas, material and labor	. 62 74	
George Fuller, material and labor	. 61 36	
M. S. Hodgson, material and labor,	59 55	
V. Haffermehl, material and labor,	59 01	
C. H. & A. F. Ireland, material and labor	. 58 77	
R. O. Evans, material and labor	. 51 00	
D. W. Brownell, material and labor,	49 80	
Isaac Smith, material and labor	. 49 43	
Kendall & Roberts, material and labor	. 46 97	
P. Y. Hoseason, material and labor,	42 35	
W. H. French & Co., material and labor	. 31 50	
Cranitch & Horrigan, material and labor	. 31 30	
Stephen Holmes, material and labor	. 30 80	
C. S. Phillips, material and labor,	22 58	
Henry McLean, material and labor,	19 80	
G. B. Randall, material and labor,	19 30	
J. D. Billings, material and labor	. 15 15	
William Welch, material and labor,	14 19	
H. H. Hunt, material and labor	. 13 93	
William Johnson, material and labor	. 13 75	
Joseph Otis, material and labor	. 11 50	
Allen Jordan, material and labor	. 10 78	
William Bemis, material and labor,	9 75	
P. Carbry, material and labor	. 9 50	
<i>Amounts carried forward</i>	. \$62,157 90	\$63,745 79

<i>Amounts brought forward</i>	. \$62,157 90	\$63,745 79
O. B. Leavitt, material and labor .	9 31	
A. J. Fiske & Co., material and labor	8 50	
J. O. Evans & Son, material and labor	7 67	
A. W. Snow, material and labor .	6 35	
F. H. Humphrey, agent, material and labor	5 60	
W. J. Wilson, material and labor .	4 30	
L. A. Gammons, material and labor,	3 85	
W. L. Smith, material and labor .	3 30	
G. S. Noden, material and labor .	3 15	
M. C. Higgins, material and labor,	2 91	
R. Arnold, material and labor .	2 18	
Sabin & Page, supplies . . .	146 75	
F. E. Hamblin, supplies . .	138 13	
B. F. Houghton, supplies . .	57 18	
M. F. Whiton & Co., supplies .	56 75	
Howe & French, supplies . .	34 73	
C. W. Morehouse, supplies . .	31 50	
J. F. Paul & Co., supplies . .	30 00	
G. Wadleigh, supplies . . .	28 88	
W. O. Knapp & Co., supplies .	25 47	
Bagnall & Laud, supplies . .	24 70	
I. H. Snow, supplies . . .	24 70	
J. J. Noble, supplies . . .	23 35	
G. P. Atkins, supplies . . .	21 62	
J. Duggan, supplies . . .	16 20	
W. D. Higgins, supplies . .	14 63	
H. B. Coffin, supplies . . .	14 55	
Blanchard & Atkins, supplies .	9 45	
J. S. Sumner, supplies . . .	8 35	
Sewall & Day Cordage Co., supplies	6 55	
<i>Amounts carried forward</i>	. \$62,928 51	\$63,745 79

<i>Amounts brought forward</i>	.	\$62,928 51	\$63,745 79
J. Breck & Son, supplies	. .	6 50	
G. F. Richardson, supplies	. .	5 64	
C. F. Rogers, supplies	. .	5 45	
Walworth Manuf. Co., supplies	. .	5 40	
G. H. Ingraham, supplies	. .	4 87	
J. E. Trowbridge, supplies	. .	4 09	
Henry Moulton & Co., supplies	. .	3 60	
A. A. Savage, supplies	. .	3 30	
Aug. Williams, supplies	. .	3 05	
Fletcher & Towne, supplies	. .	2 88	
J. W. Davis & Co., supplies	. .	2 29	
A. Pillsbury, jun., supplies	. .	2 25	
H. W. Fanning & Son, supplies	. .	2 03	
Sundry small bills	. . .	23 61	

Total, as per item No. 19 of expenses	.		63,003 47
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Balance unexpended, transferred into treasury,		\$742 32
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Highways, Widening and Improvements.

Appropriation	\$10,000 00
John A. Kenrick, treasurer, amount paid for labor and teams, as per pay-rolls \$6,369 22	
Lidgerwood Manufacturing Com- pany engine	. . . . . 1,300 00	
Farrell Foundry and Machine Com- pany, crusher	. . . . . 800 00	
Noah Prescott, stone	. . . . . 313 70	
C. H. & A. F. Ireland, material and labor	. . . . . 252 27	
Higgins & Nickerson, material and labor	. . . . . 108 99	
Isaac Smith, material and labor 88 78	

<i>Amounts carried forward</i>	.	\$9,232 96	\$10,000 00
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<i>Amounts brought forward</i>	\$9,232 96	\$10,000 00
Charles A. Cole, material and labor,	85 00	
William Petigrew, material and labor	57 70	
Stephen Holmes, material and labor	38 83	
V. Haffermehl, material and labor,	13 99	
W. S. French, services as assistant engineer	65 00	
W. P. Morse, services as assistant engineer	35 00	
Arthur Woodruff, services as assistant engineer	25 00	
Simpson Brothers, concreting .	82 73	
T. B. Adams & Co., belt . .	82 23	
Waldo Brothers, cement . .	30 50	
A. W. Carter, trustee, gravel .	24 45	
Boston and Albany R.R., freight .	16 00	
W. H. McIntosh, use of team .	4 00	
S. F. Cate, use of team . .	1 50	

Total, as per item No. 20 of expenses .	9,794 89
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Balance unexpended, transferred into treasury,	\$205 11
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Paid to G. W. Ulmer, for board of William F. Hutchin, as per item No. 21 of expenses .	\$75 00
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Improvement on Public Squares.

Appropriation	\$2,500 00	
Transferred to special appropriation for Farlow Park by order of City Council	1,225 00	
	<hr/>	\$1,275 00
<i>Amount carried forward</i>		<hr/> \$1,275 00

<i>Amount brought forward</i>					\$1,275 00
John A. Kenrick, treasurer, labor, men, and teams on Lake Ave- nue, Ward 6.				\$500 00	
Newton Cemetery Corporation, for trees, labor, etc., on Centre Green, Newton Centre			150 00		
Newton Cemetery Corporation, for trees, labor, etc., on Washing- ton Park			100 00		
Timothy Stuart, labor, men, and teams			98 00		
M. J. Gill, curbing park Newton Highlands			83 00		
J. F. C. Hyde, services as appraiser,			30 00		
Levi Coldwell, stone wall, Ward 6,			30 00		
Alexander McDonald, material and labor			25 83		
Milo Lucas, material and labor			22 50		
C. S. Phillips, material and labor			10 00		
R. J. Morrissey, material and labor,			1 74		
George H. Pratt, advertising and printing			63 95		
The "Newton Graphic," advertis- ing and printing			59 33		
Transcript Publishing Company, advertising and printing			58 13		
Stephen F. Cate, horse and car- riage hire			29 00		
C. G. Tinkham, horse and car- riage hire			4 00		
John T. Hill, horse and carriage hire,			3 00		
Eames's Express, expressage			4 00		
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Total, as per item No. 22 of expenses					1,272 48
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Balance unexpended, transferred into treasury					\$2 52

Interest on City Loans, Temporary and Permanent.

Appropriation	\$25,500 00
Commonwealth of Massachusetts .	\$14,604 27
City Institution for Savings,	
Lowell	4,800 00
Municipal bonds	1,700 00
Suffolk Savings Institution . . .	1,518 90
Blake Brothers & Co.	1,388 89
Boston Five Cents Savings Bank .	765 55
Park bonds	500 00
Kenrick Fund	52 20

Total, as per item No. 23 of expenses . . . 25,329 81

Balance unexpended, transferred into treasury . . \$170 19

Interest on Water Bonds.

Appropriation	\$51,400 00
National Bank of the Common-	
wealth	\$24,250 00
National Bank of the Common-	
wealth	1,200 00
National Bank of the Common-	
wealth	24,250 00
National Bank of the Common-	
wealth	1,200 00

Total, as per item No. 24 of expenses . . . 50,900 00

Balance unexpended, transferred into treasury . . \$500 00

Indigent Soldiers and Sailors.

Appropriation	\$1,000 00
Levi Harrison	\$144 00
Rasselas W. Ireland	96 00

Amounts carried forward . . . \$240 00 \$1,000 00

<i>Amounts brought forward</i>	.	\$240 00	\$1,000 00
Albert P. Bugbee		96 00	
John N. Nichols		96 00	
John F. Franklin		96 00	
Daniel Sullivan		90 00	
John Curtin		72 00	
Franklin D. Hill		72 00	
James H. Lockley		72 00	
Samuel Franklin		64 00	
Samuel Wallis		40 00	

Total, as per item No. 25 of expenses . . 938 00

Balance unexpended, transferred into treasury . \$62 00

Industrial and Mechanical Drawing.

Appropriation . . . . .	.	\$300 00
Henry N. Mudge, services as teacher,	\$151 75	
Joshua L. Randall, janitor	16 00	

Total, as per item No. 26 of expenses . . 167 75

Balance unexpended, transferred into treasury . \$132 25

Land Damages.

Appropriation	\$1,400 00	
Transferred to appropriation for high-		
way, general repairs	800 00	
		\$600 00
R. L. Bridgman, land on Hancock		
Street	\$148 35	
Simpson Brothers, concreting side-		
walk, Newtonville Square	127 52	
Heirs of Patrick Hurley, land on		
Summer Street	110 00	
<i>Amounts carried forward</i>	\$385 87	\$600 00

<i>Amounts brought forward</i>	\$385 87	\$600 00
Callahan Corkery, land on Summer Street	90 00	
Dustin Lancy and O. B. Leavitt, land in Newtonville Square	41 80	
John A. Kenrick, treasurer, labor, men, and teams, highway department	36 75	
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Total, as per item No. 28 of expenses		554 42
Balance unexpended, transferred into treasury		<hr/> \$45 58

Memorial Day.

Appropriation		\$300 00
Charles Ward Post No. 62 G.A.R.,	\$300 00	
	<hr/>	
Total, as per item No. 29 of expenses		\$300 00

Miscellaneous Expenses.

Appropriation		\$18,000 00
George R. Aston, judgment, Aston vs. city of Newton	\$3,939 59	
Francis C. White, judgment, White vs. city of Newton	3,294 29	
Francis D. Blake, judgment, Blake vs. city of Newton	411 47	
Water department, use of water, watering streets	1,999 19	
Water department, use of water, watering-troughs	800 00	
Water department, use of water, drinking-posts	120 00	
Timothy Stuart, watering streets, Wards 1 and 7	600 00	
	<hr/>	
<i>Amounts carried forward</i>	\$11,164 54	\$18,000 00

<i>Amounts brought forward</i>	\$11,164 54	\$18,000 00
W. H. Mague, watering streets, Wards 3 and 4	525 00	
T. R. Frost, watering streets, Ward 6	262 50	
B. McFaden, watering streets, Ward 2	247 50	
Charles Robinson, jun., legal ser- vices, etc.	965 95	
Peter Thacher, legal services, etc.,	860 50	
Solomon Lincoln, legal services, etc.	800 00	
W. S. Slocum, legal expenses in suits	375 00	
M. C. Laffie, serving warrants, etc.,	298 46	
R. M. Lucas, serving warrants, etc.,	117 19	
John M. Fisk, serving warrants, etc.,	90 81	
J. Upham Smith, collecting taxes .	4 50	
N. C. Sanger, settlement of claim,	75 00	
G. F. Morgan, abstract of deeds for assessors	138 08	
M. U. Adams, services on account of tax, Newton Mills . . .	100 00	
Otis Pettee, services on account of tax, Newton Mills	10 00	
Clerk of Courts, Middlesex County, recording notices	3 70	
Charles B. Stevens, recording tax deeds	2 25	
Albert A. Dyer, invalid tax title and expenses	122 40	
Shedd & Sawyer, services in Sanger case	27 50	
New-England Telephone Com- pany, rental of instruments .	327 33	
<i>Amounts carried forward</i>	\$16,518 21	\$18,000 00

<i>Amounts brought forward</i>	. \$16,518 21	\$18,000 00
Suburban Telephone Company, messages, etc.	15 70	
Charles Williams, jun., repairs, etc.,	23 50	
Charles H. Stacy, telegrams . . .	60 36	
Newton Athenæum, aid for reading- room	250 00	
American Bank Note Company, changing plate for bonds . . .	100 00	
Boston Safe Deposit and Trust Company, rent of box	40 00	
George E. Bridges, services in city clerk's office	225 00	
George E. Bridges, services collect- ing account of births	212 00	
E. D. Brooks, trimming trees . . .	120 00	
Thomas Troy, trimming trees . . .	31 50	
Drew, Allis, & Co., printing ordi- nances in Newton Directory, and twelve copies Newton Di- rectory	94 50	
J. Q. Fuller, four copies Boston Directory	20 00	
Samuel M. Jackson, use of horse and carriage in assessing taxes,	80 00	
Edwin Fewkes, flowers, Memorial Day	26 00	
William S. French, services for city clerk	25 00	
Heirs of A. Cole, rent of hall for ward-room	26 00	
G. Wadleigh, rent of Tremont Hall for ward-room	18 00	
Rand, Avery, & Co., printing mu- nicipal register, tax-lists, etc. .	630 21	
<i>Amounts carried forward</i>	. \$18,515 98	\$18,000 00

<i>Amounts brought forward</i>	\$18,515 98	\$18,000 00
George H. Pratt, advertising tax-sale, warrants, etc.	218 75	
Transcript Publishing Company, advertising warrants, etc.	68 50	
The "Newton Graphic," advertising warrants, etc.	52 50	
Wright & Potter Printing Company, printing	22 00	
G. M. Bridges, printing	2 50	
M. R. Warren, supplies	215 11	
Isaac Hagar, writing up description of estates for tax-sale	25 00	
Isaac Hagar, for incidental expenses in assessors' department	22 95	
Isaac F. Kingsbury, incidental expenses in city clerk's department	56 80	
John A. Kenrick, incidental expenses in treasury department,	34 15	
Benjamin F. Otis, incidental expenses in auditor's department	74 25	
J. D. Wellington, expenses in city messenger's department	2 03	
D. Harrington & Sons, carriages, Memorial Day	80 00	
Stephen F. Cate, use of teams	47 25	
Nonantum Stables, use of teams	18 00	
George W. Bush, use of teams	8 00	
Harris Express, use of teams	8 00	
William Weir, use of teams	4 00	
W. H. Mague, use of teams	2 00	
A. A. Savage, use of Tremont Hall,	12 00	
L. W. Rogers, city seals	4 80	
<i>Amounts carried forward</i>	\$19,494 57	\$18,000 00

<i>Amounts brought forward</i>	. \$19,494 57	\$18,000 00
A. L. Shipman's Sons, supplies	. 4 50	
Dennison Manufacturing Com- pany, boxes for treasurer	. 4 20	
J. Carroll, material and labor	. 2 40	
C. H. Dolan, material and labor	. 2 50	
Milo Lucas, material and labor	. 2 17	
Stephen F. Cate, making return of deaths	34 75	
James McGourty, making return of deaths	19 50	
John A. Peck, making return of deaths	9 00	
William H. Mague, making return of deaths	7 50	
John Flood, making return of deaths	4 75	
George H. Gregg <i>et al.</i> , making return of deaths	4 25	
Harrington and Gregg, making re- turn of deaths	4 25	
S. P. Whitman, making return of deaths	3 25	
Adams Express Co., expressage	. 9 85	
J. T. Hill, conveying returns of elections	5 00	
J. Frank Makee, conveying returns of elections	4 00	
John Purcill, conveying returns of elections	4 00	
B. H. Huestis, conveying returns of elections	2 00	
Bernard Early, conveying returns of elections	2 00	
W. F. Soule, fitting up ward-room,	19 00	
<i>Amounts carried forward</i>	. \$19,643 44	\$18,000 00

<i>Amounts brought forward</i>	\$19,643 44	\$18,000 00
Thomas Woodman, fitting up ward- room	12 00	
J. D. Billings, fitting up ward- room	7 00	
Thomas Woodman, ringing bell .	6 00	
Geo. W. Chamberlain, ringing bell,	6 00	
William A. Moore, ringing bell .	6 00	
J. T. Thomason, ringing bell .	6 00	
F. B. Sisson, ringing bell . . .	6 00	
J. H. Boit, ringing bell . . .	3 00	
C. A. Worth, ringing bell . . .	3 00	
Herbert F. Bent, warden, Ward 1,	5 50	
John C. Potter, warden, Ward 1 .	2 00	
Geo. E. Bridges, warden, Ward 2 .	7 50	
F. C. Sheridan, warden, Ward 3 .	3 50	
F. H. Peck, warden, Ward 3 .	2 00	
H. C. Wood, warden, Ward 3 .	2 00	
Bernard Early, warden, Ward 4 .	11 50	
Albert J. Grover, warden, Ward 5,	7 50	
S. M. Jackson, warden, Ward 6 .	7 50	
J. Edwin Warner, warden, Ward 7,	7 50	
Charles F. Rand, clerk, Ward 1 .	5 50	
F. M. Trowbridge, clerk, Ward 1,	2 00	
W. S. Higgins, clerk, Ward 2 .	7 50	
Richard A. Carroll, clerk, Ward 3,	7 50	
H. H. Mather, clerk, Ward 4 .	9 50	
Lewis P. Everett, clerk, Ward 5 .	4 00	
William E. Clark, clerk, Ward 5 .	3 50	
Lewis E. Coffin, clerk, Ward 6 .	7 50	
Charles W. Bassett, clerk, Ward 7,	7 50	
Dexter Whipple, inspector, Ward 1,	7 50	
Edw. L. Lemon, inspector, Ward 1,	7 50	
Geo. Lane, 2d, inspector, Ward 1 .	5 50	
Chas. F. Rand, inspector, Ward 1,	2 00	
<i>Amounts carried forward</i>	\$19,831 94	\$18,000 00

<i>Amounts brought forward</i>	\$19,831 94	\$18,000 00
J. D. Billings, inspector, Ward 2 .	7 50	
L. H. Cranitch, inspector, Ward 2,	7 50	
H. P. Dearborn, inspector, Ward 2,	7 50	
Chas. F. Tuttle, inspector, Ward 3,	7 50	
H. C. Wood, inspector, Ward 3 .	5 50	
H. P. Barber, inspector, Ward 3 .	5 50	
S. N. Waters, inspector, Ward 3 .	2 00	
F. C. Sheridan, inspector, Ward 3,	2 00	
George W. Chamberlain, inspector,		
Ward 4	9 50	
G. Lyman Snow, inspector, Ward 4,	5 50	
E. E. Moody, inspector, Ward 4 .	5 50	
W. P. Holden, inspector, Ward 4,	4 00	
W. F. Soule, inspector, Ward 4 .	4 00	
W. B. Atherton, inspector, Ward 4,	2 00	
John W. Howe, inspector, Ward 5,	7 50	
Edward M. Billings, inspector,		
Ward 5	5 50	
W. T. Logan, inspector, Ward 5,	4 00	
H. H. Easterbrook, inspector,		
Ward 5	2 00	
S. C. Spaulding, inspector, Ward 6,	7 50	
Geo. R. Hovey, inspector, Ward 6,	7 50	
R. R. Bishop, jun., inspector,		
Ward 6	5 50	
E. H. Mason, inspector, Ward 6 .	2 00	
William F. Woodman, inspector,		
Ward 6	2 00	
E. B. Hitchcock, inspector, Ward 7,	7 50	
A. Byfield, inspector, Ward 7 .	7 50	
F. A. Wetherbee, insp'tor, Ward 7,	4 00	
H. N. Hyde, inspector, Ward 7 .	3 50	
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Total, as per item No. 30 of expenses .		19,973 44
		<hr/>
Balance overdrawn, transferred into treasury .		\$1,973 44

Newton Free Library.

Appropriation		\$8,500 00
Hannah P. James, services, librarian	\$1,000 32	
Elizabeth P. Thurston, services, assistant librarian	600 00	
Etta P. Cleaveland, services, assistant librarian	400 00	
Louise J. Smallwood, services, assistant librarian	400 00	
Millie E. Michaels, services, assistant librarian	400 00	
James J. Tower, services, janitor	800 00	
O. A. Chick, services, janitor	11 62	
W. B. Clark & Carruth, books	611 62	
J. S. Farlow, draft for English books	310 38	
A. Williams & Co., books	259 81	
N. J. Bartlett & Co., books	251 48	
Cupples, Upham, & Co., books	246 81	
Little, Brown, & Co., books	141 33	
H. C. Nash, books	27 00	
W. H. Thompson & Co., books	9 00	
Lee & Shepard, books	9 00	
Lockwood, Brooks, & Co., books	8 75	
Russell & Henderson, books	5 00	
Estes & Lauriat, books	1 50	
S. S. Ryder, books	1 50	
Rand, Avery, & Co., library bulletin	266 50	
H. D. Noyes & Co., subscription	171 05	
F. Leyboldt, subscription	30 00	
The Tribune Co., subscription	18 50	
A. S. Weed, subscription	12 50	
Nickelson & Co., subscription	12 00	

<i>Amounts carried forward</i>	\$6,005 67	\$8,500 00
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<i>Amounts brought forward</i>	\$6,005 67	\$8,500 00
"Boston Daily Advertiser," subscription	12 00	
Commercial Gazette Company, subscription	10 50	
The "Nation," subscription	9 00	
Post Publishing Co., subscription	9 00	
G. W. Armstrong, subscription	8 25	
"New York Herald," subscription	8 00	
The "World," subscription	7 70	
The "Springfield Republican," subscription	7 00	
The "Sun," subscription	6 50	
Gazette Printing Co., subscription,	6 00	
Dodd, Mead, & Co., subscription	6 00	
Globe Newspaper Company, subscription	6 00	
Journal Newspaper Company, subscription	6 00	
R. M. Pulsifer & Co., subscription,	6 00	
H. G. Parker, subscription	3 20	
The "Newton Graphic," subscription	2 00	
Neil McGinnis, expressage of books	900 00	
N. & W. Gaslight Co., gas	454 50	
Albert Brackett, coal	241 65	
J. H. H. McNamee, binding books,	219 16	
J. G. Roberts, binding books	32 95	
J. Goldthwait & Co., carpet, etc.,	53 19	
Suburban Telephone Company, use of instruments, etc. . . .	36 10	
Howard Brothers, ice	30 00	
George H. Pratt, printing	15 50	
City of Newton, use of water	14 51	
<i>Amounts carried forward</i>	\$8,116 38	\$8,500 00

<i>Amounts brought forward</i>	.	\$8,116 38	\$8,500 00
H. C. Dimond, stamp	. . .	10 00	
B. F. Bacon, for watering streets	.	5 00	
Library Bureau, supplies	. .	60 17	
Thayer & Stiles, supplies	. .	26 85	
G. W. Lane, supplies	. . .	24 50	
J. Q. Bradish, supplies	. . .	10 80	
Gilman Brothers, supplies	. .	7 50	
Smith & Byram, supplies	. .	6 50	
C. H. Stone & Co., supplies	. .	5 20	
A. J. Wilkinson & Co., supplies	.	1 50	
W. C. Gaudelet, agency	. .	50 00	
B. Billings, agency	. . .	40 00	
J. J. Peck, agency	. . .	30 00	
J. W. Davis & Co., agency	. .	25 00	
E. E. Moody, agency	. . .	16 00	
L. H. L. Davis, agency	. . .	15 33	
A. E. Brickett, agency	. . .	14 66	
C. W. Kinder, agency	. . .	10 00	
R. O. Evans, material and labor	.	12 85	
J. O. Evans & Son, material and labor	. . . . .	4 85	
H. F. Wellington, material and labor	. . . . .	4 00	
Edward Pike, material and labor	.	2 90	

Total, as per item No. 31 of expenses . 8,499 99

Balance unexpended, transferred into treasury, \$ 01

Nonantum Schoolhouse, Special Appropriation.

Henry F. Ross, am't paid on acc't of contract,	\$10,500 00
George F. Meacham, services as architect .	400 00
John A. Kenrick, treasurer, amount paid on account of grading, etc.	799 18

Amount carried forward. \$11,699 18

<i>Amount brought forward</i>	.	.	.	\$11,699 18
Timothy Stuart, labor, men, and teams	.			199 63
Water department, use of water	.	.	.	33 14
George H. Pratt, advertising	.	.	.	7 75
Journal Newspaper Company, advertising	.			6 00
R. M. Pulsifer & Co., advertising	.	.	.	6 00
Transcript Publishing Company, advertising,				4 75
The "Newton Graphic"	.	.	.	3 00
				<hr/>
Total, as per item No. 32 of expenses	.			\$11,959 45

Police Department.

Appropriation	\$17,700 00
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REGULAR POLICE-OFFICERS.

Revilo L. Hinds, city marshal	.	\$721 18
Charles F. Richardson, acting city marshal	.	39 80
Daniel M. Hammond, city marshal,		479 45
Charles F. Richardson, sergeant of police	.	1,000 00
N. F. Bosworth, mounted patrol- man	.	856 25
James D. Henthorn, patrolman	.	872 50
William C. Emerson, patrolman	.	865 00
George E. F. Baker, patrolman	.	847 50
Charles O. Davis, patrolman	.	865 00
Charles E. Davis, patrolman	.	897 50
John Ryan, patrolman	.	897 50
Edson C. Holmes, patrolman	.	890 00
W. G. Bosworth, patrolman	.	765 44
Robert S. Harrison, patrolman	.	842 50
John Purcell, patrolman	.	875 00
Rufus H. Moulton, patrolman	.	795 00

<i>Amounts carried forward</i>	.	\$12,509 62	\$17,700 00
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<i>Amounts brought forward</i>	.	\$12,509 62	\$17,700 00
Charles P. Huestis, patrolman	.	885 00	
Frank B. Fletcher, patrolman	.	860 00	
		<hr/>	
		\$14,254 62	

SPECIAL POLICE-OFFICERS.

John W. Conroy, jun.	.	.	.	\$186 25
Martin C. Laffie	.	.	.	183 75
A. M. Fuller	.	.	.	87 50
B. H. Huestis	.	.	.	87 50
F. E. Hinds	.	.	.	76 25
T. F. O'Shaughnessy	.	.	.	15 00
				<hr/>
				\$14,890 87

INCIDENTAL EXPENSES.

W. S. Ware, one bay horse	.	.	\$300 00
R. L. Hinds, board and use of horse,			172 85
N. F. Bosworth, board of horse, and			
use of team	.	.	350 30
S. F. Cate, board of horse, and use			
of teams	.	.	163 62
S. L. Pratt, use of teams	.	.	169 75
J. Frank Makee, use of teams	.		50 00
William Weir, use of teams	.		33 50
Nonantum Stables, use of teams	.		33 00
S. G. Williams, use of teams	.		10 00
John T. Hill, use of teams	.	.	6 00
S. F. Hatchard, use of teams	.		4 00
W. H. Mague, use of teams	.		2 00
John Purcill, conveyance of pris-			
oners	.	.	114 42
C. O. Davis, conveyance of pris-			
oners	.	.	9 00
			<hr/>

<i>Amounts carried forward</i>	.	\$16,309 31	\$17,700 00
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<i>Amounts brought forward</i>	\$16,309 31	\$17,700 00
R. S. Harrison, conveyance of prisoners	3 00	
P. A. McVicar, buggy, sleigh, etc.,	186 15	
N. & W. Gaslight Co., gas . . .	133 50	
Albert Brackett, coal	63 70	
Water department, use of water .	55 00	
J. R. McLaughlin, care of sick horses	35 00	
M. S. Hodgson, harness, etc. .	81 30	
B. F. Barlow, blacksmithing . .	31 10	
J. C. Farrar, blacksmithing . .	19 13	
Andrew Peters, blacksmithing .	9 35	
John McDonald, blacksmithing .	4 39	
Mary W. Brownell, meals for prisoners	45 50	
Charles P. Huestis, meals for prisoners	21 00	
George W. Lamson, meals for prisoners	8 90	
Mrs. F. Martin, meals for prisoners,	6 25	
F. B. Fletcher, meals for prisoners,	5 25	
C. H. Jenison, expressage . . .	13 75	
D. M. Hammond, sundry cash expenses	15 58	
E. C. Holmes, sundry cash expenses	18 40	
John Ryan, sundry cash expenses,	3 00	
Rockwell & Churchill, printing .	12 25	
Transcript Publishing Company, printing	11 41	
Benjamin Perkins, cleaning vault,	8 00	
Jerry Lehan, clipping horse . .	3 00	
Sabin & Page, supplies	15 75	
C. A. Twichell & Co., supplies .	10 00	
<i>Amounts carried forward</i>	\$17,128 97	\$17,700 00

<i>Amounts brought forward</i>	.	\$17,128 97	\$17,700 00
H. A. Winship, supplies	.	7 00	
Peabody & Whitney, supplies	.	6 25	
Hill & Langtry, supplies	.	5 75	
R. Arnold, supplies	.	5 50	
Milo Lucas, supplies	.	4 70	
M. G. Crane, supplies	.	4 00	
G. W. Ulmer, supplies	.	4 00	
Baker & Humphrey, supplies	.	3 75	
C. S. Brown & Co., supplies	.	3 75	
S. O. Aborn, supplies	.	2 00	
Sundry small bills	.	23 90	

Total, as per item No. 33 of expenses . \$17,199 57

Balance unexpended, transferred into treasury, \$500 43

Poor out of Almshouse.

Appropriation	.	.	.	.	.	.	\$7,500 00
Nathan Mosman, services as city almoner, and clerk of board of overseers	.	.	.	.	.	\$700 00	
Charles F. Rand, services, overseer, Ward 1	.	.	.	.	.	50 00	
O. B. Leavitt, services, overseer, Ward 2	.	.	.	.	.	50 00	
O. F. Lucas, services, overseer, Ward 3	.	.	.	.	.	50 00	
Nathan Mosman, services, overseer, Ward 4	.	.	.	.	.	50 00	
H. C. Hoyt, services, overseer, Ward 5	.	.	.	.	.	50 00	
George Warren, services, overseer, Ward 6	.	.	.	.	.	50 00	
<i>Amounts carried forward</i>	.	.	.	.	.	\$1,000 00	\$7,500 00

<i>Amounts brought forward</i> .	\$1,000 00	\$7,500 00
John Warner, services, overseer, Ward 7	50 00	
Nathan Mosman, amount paid to sundry persons	445 56	
Worcester Lunatic-Hospital, care of sundry persons	1,677 74	
Northampton Lunatic-Hospital, care of sundry persons	179 36	
Asylum for the Chronic Insane, care of sundry persons	279 55	
Commonwealth of Massachusetts, care of sundry persons	233 07	
City of Boston, partial support of poor	194 87	
City of Malden, partial support of poor	132 65	
City of Lowell, partial support of poor	48 00	
City of Cambridge, partial support of poor	24 53	
City of Somerville, partial support of poor	12 85	
Town of Athol, partial support of poor	3 00	
Dr. F. D. Lord, medical attendance, Dr. W. H. Hildreth, medical attend- ance	91 90 31 40	
Dr. F. W. Webber, medical attend- ance	20 00	
Dr. H. B. Stoddard, medical attend- ance	17 00	
Drs. O. E. and W. O. Hunt, medi- cal attendance	12 40	
Dr. James Utley, medical attend- ance	12 00	
<i>Amounts carried forward</i> .	<hr/> \$4,465 88	<hr/> \$7,500 00

<i>Amounts brought forward</i>	\$4,465 88	\$7,500 00
Dr. H. P. Bellows, medical attendance	10 00	
Dr. E. P. Scales, medical attendance	9 00	
Dr. F. L. Thayer, medical attendance	8 40	
Dr. F. E. Crockett, medical attendance	7 00	
Dr. Eben Thompson, medical attendance	5 00	
Dr. H. M. Field, medical attendance	5 00	
Dr. J. R. Deane, medical attendance	3 00	
Dr. J. H. Hazeltine, medical attendance	3 00	
Dr. Albert Nott, medical attendance	2 20	
E. J. Williams, prescriptions	25 35	
C. Sargent Bird, prescriptions	17 25	
C. F. Rogers, prescriptions	13 25	
J. H. Woolrich, prescriptions	9 20	
Aug. Williams, prescriptions	6 63	
B. Billings, prescriptions	5 00	
Arthur Hudson, prescriptions	3 85	
A. Brush, prescriptions	2 90	
G. H. Ingraham, prescriptions	2 15	
Mrs. C. G. Tinkham, services as nurse	128 50	
Kate McCloskey, services as nurse,	15 00	
Margaret Freeman, services as nurse	10 00	
Katie McLeod, services as nurse	7 00	
W. H. Mague, funeral-expenses	50 00	
<i>Amounts carried forward</i>	\$4,814 56	\$7,500 00

<i>Amounts brought forward</i>	\$4,814 56	\$7,500 00
James McGourty, funeral-expenses,	47 00	
G. Lewis, funeral-expenses . . .	15 00	
B. F. Hutchins, funeral-expenses .	13 50	
G. H. Gregg, funeral-expenses . .	8 00	
Newton Cemetery Corporation, in-		
terments	22 00	
Roxbury Home, board of Miss		
Crawley	90 00	
C. W. Thompson, board of B. Far-		
ren	15 00	
Obed Porter, board of Mary Porter,	6 50	
Catherine Collins, house-rent for		
John Jeffers	52 00	
Mary Welch, house-rent for Morris		
Gerry	15 00	
Nonantum Stables, use of teams .	10 00	
George W. Bush, use of teams . .	6 00	
S. F. Cate, use of teams	5 00	
J. E. Cahill, use of teams . . .	5 00	
S. F. Hatchard, use of teams . .	5 00	
W. H. Mague, use of teams . . .	2 00	
W. O. Knapp & Co., groceries . .	370 96	
C. Strout & Sons, groceries . . .	235 85	
H. E. Woodbury, groceries . . .	176 29	
G. Wadleigh, groceries	130 45	
G. H. Adams, groceries	125 00	
J. B. Murphy, groceries	115 85	
H. A. Sherman, groceries . . .	107 00	
E. Vickers, groceries	83 05	
W. P. Holden, groceries	70 41	
I. R. Stevens, groceries	56 44	
J. W. Davis & Co., groceries . .	52 00	
A. A. Savage, groceries	44 25	
W. F. Shattuck, groceries . . .	40 97	
<i>Amounts carried forward</i>	\$6,740 08	\$7,500 00

<i>Amounts brought forward</i>	\$6,740 08	\$7,500 00
C. C. Cook, groceries . . .	40 97	
H. B. Coffin, groceries . . .	35 35	
F. S. Crockett, groceries . . .	31 87	
H. W. Fanning & Son, groceries .	24 56	
B. B. Vassell, groceries . . .	24 00	
A. Whitney, groceries . . .	14 70	
Mann & Eaton, groceries . . .	14 00	
Fletcher & Towne, groceries . .	6 00	
Fulton, Bartlett, & Blaine, groceries	5 00	
T. R. Frost, groceries . . .	2 95	
G. P. Atkins, groceries . . .	2 00	
Albert Brackett, fuel . . .	269 39	
Waters & Inman, fuel . . .	174 03	
Trowbridge & Hill, fuel . . .	165 52	
J. W. Pearson, fuel . . .	134 51	
C. F. Eddy & Co., fuel . . .	94 24	
Almshouse department, fuel . .	58 00	
T. W. Nickelson, fuel . . .	40 00	
Daniel Warren, fuel . . .	25 87	
Hills & Bullens, fuel . . .	19 55	
E. C. Holmes, conveyance of sundry persons	35 23	
C. O. Davis, conveyance of sundry persons	3 46	
N. F. Bosworth, conveyance of sundry persons	2 00	
John Purcill, conveyance of sundry persons	2 00	
H. C. Hoyt, sundry cash payments,	15 00	
C. H. Hurd, expressage . . .	7 00	
O. B. Leavitt, rent of store . .	3 00	
O. F. Lucas, supplies . . .	9 10	
E. E. Moody, supplies . . .	3 00	
<i>Amounts carried forward</i>	\$8,002 38	\$7,500 00

<i>Amounts brought forward</i>	.	\$8,002 38	\$7,500 00
Henry Harpin, supplies	. .	2 50	
M. Mahoney, supplies	. . .	2 42	
Scamman & Cook, supplies	. . .	2 34	
Sundry small bills	. . .	6 50	
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Total, as per item No. 34 of expenses	.	.	\$8,016 14
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Balance overdrawn, transferred into treasury	.	.	\$516 14

Public Property.

Appropriation	\$15,000 00
Nonantum Athenæum, for rent of building for school purposes	.	\$420 00		
First Baptist Society, use of chapel, for school in Thompsonville, for 1883	. . . . .	150 00		
J. H. Stevens, superintendent, use of chapel, for school in Thomp- sonville, from July 1 to Dec. 31, 1882	. . . . .	75 00		
John A. Kenrick, treasurer, labor, men, and teams, highway de- partment	. . . . .	263 76		
John Hackett, labor, men, and teams	. . . . .	163 75		
Walker & Pratt Manufacturing Co., furnace, etc.	. . . . .	165 75		
Gardner Chilson, furnace	. . . . .	149 00		
J. L. Randall, care of schoolhouse hall	. . . . .	120 00		
L. B. Gay, premium on insurance, Oak Hill schoolhouse	87 50		
H. D. Woods, services as assistant city engineer	80 00		
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<i>Amounts carried forward</i>	.	\$1,674 76	\$15,000 00	

<i>Amounts brought forward</i>	.	\$1,674 76	\$15,000 00
I. W. Hastings, services as assistant city engineer	. . .	45 00	
Joel Goldthwait & Co., carpet	.	61 40	
American Tube Co., brass tubes	.	38 61	
N. & W. Gaslight Co., gas	. . .	43 25	
W. P. Wentworth, services as architect	. . . . .	30 00	
G. F. Frost, brick	. . . . .	25 30	
Simpson Brothers, concreting	.	39 39	
Boston and Albany R.R., freight	.	27 43	
N. Y. and N. E. R.R. freight	.	9 60	
Water department, use of water	.	19 15	
Waldo Brothers, cement	. . .	47 80	
Gilkey & Stone, lumber	. . .	14 28	
J. S. Hobbs & Co., lime	. . .	12 60	
Waters & Inman, lime	. . .	3 90	
National Rubber Co., hose	. . .	7 85	
Rockwell & Moseley, powder and fuse	. . . . .	8 00	
American Steam Gauge Co., gauge	. . . . .	7 10	
F. E. Hamblin, sand, etc.	. . .	6 45	
A. F. Noyes, for expressage	. . .	11 10	
F. Jones Express, expressage	.	5 30	
Bragdon & Son, expressage	. . .	3 50	
Harris Express, expressage	. . .	2 50	
T. Fitzgerald, labor	. . .	4 00	
B. Bryson, labor	. . . . .	3 50	
Mrs. D. Mahoney, cleaning carpets,		3 50	
John A. Gay, material and labor	.	2,265 50	
Henry H. Hunt, material and labor	. . . . .	1,986 92	
Alfred Hopkins, material and labor	. . . . .	1,695 32	
<i>Amounts carried forward</i>	.	\$8,103 01	\$15,000 00

<i>Amounts brought forward</i> .	\$8,103 01	\$15,000 00
Higgins & Nickerson, material and labor	1,486 47	
R. J. Morrissey, material and labor,	1,113 22	
W. E. Scribner, material and labor,	428 88	
William Bemis, material and labor,	367 20	
Isaac Smith, material and labor .	351 62	
J. P. Keating, material and labor .	318 42	
T. J. Hartnett, material and labor,	258 00	
A. W. Snow, material and labor .	250 81	
C. C. Pottle, material and labor .	244 77	
W. B. Saddler, material and labor,	224 75	
F. H. Humphrey, material and labor	221 25	
O. B. Leavitt, material and labor .	186 60	
Cranitch & Horrigan, material and labor	174 75	
John Foster & John Marden, material and labor.	150 00	
Samuel D. Garey, material and labor	138 86	
Davis & Farnum Manufacturing Co., material and labor . . .	122 48	
H. C. Lindley, material and labor.	79 94	
W. A. Fogwell, material and labor,	70 00	
Henry McLean, material and labor,	58 00	
Edward Pike, material and labor .	51 29	
Dennis O'Driscoll, material and labor	47 75	
A. P. Putney, material and labor .	47 25	
J. S. Sumner, material and labor .	38 99	
H. F. Wellington, material and labor	38 26	
S. G. Steres, material and labor .	34 02	
Moses Pond & Co., material and labor	30 00	
<i>Amounts carried forward</i> .	\$14,636 59	\$15,000 00

<i>Amounts brought forward</i>	\$14,636 59	\$15,000 00
J. L. Randall, material and labor	29 65	
W. P. Leavitt & Son, material and labor	25 34	
Gannon Brothers, material and labor	22 50	
D. H. McWain, material and labor,	20 00	
John Foster, material and labor	17 75	
C. G. Fletcher, material and labor,	16 25	
Milo Lucas, material and labor	16 13	
C. S. Phillips, material and labor	13 63	
R. M. Lucas, material and labor	13 00	
James E. Deady, material and labor,	12 00	
Stearns & Co., material and labor,	8 75	
A. Hodgson, material and labor	5 50	
Adam Beck, material and labor	5 45	
W. A. Hackelton, material and labor	4 85	
R. O. Evans, material and labor	3 18	
W. H. French & Co., material and labor	3 00	
Thomas Belger, blacksmithing	45 73	
Charles A. Cole, blacksmithing	36 00	
B. F. Barlow, blacksmithing	30 72	
Scott & Maher, blacksmithing	22 30	
J. C. Farrar, blacksmithing	11 75	
S. P. Whitman, ag't, rent of stable,	13 00	
Stephen F. Cate, use of teams	11 00	
Van Wagoner & Williams, supplies,	45 10	
Blodgett Brothers & Co., supplies,	43 50	
Walworth Manufacturing Company, supplies	38 61	
E. L. & F. S. Rollins, supplies	29 90	
H. A. Sherman, supplies	25 76	
Oliver Whyte & Co., supplies	13 84	
<i>Amounts carried forward</i>	\$15,220 78	\$15,000 00

<i>Amounts brought forward</i>	. \$15,220 78	\$15,000 00
G. W. & F. Smith Iron Company, supplies	12 65	
Chandler & Farquhar, supplies .	2 35	
Wadsworth Brothers & Howland, supplies	10 84	
M. C. Higgins, supplies . . .	8 75	
W. O. Knapp & Co., supplies . .	6 00	
C. M. Clapp & Co., supplies . .	5 50	
H. L. Fearing & Co., supplies . .	4 65	
Turner & Knapp, supplies . . .	3 20	
Nichols, Bellamy, & Co., supplies,	2 40	
J. E. Trowbridge, supplies . . .	2 00	
Sundry small bills	14 11	
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Total, as per item No. 35 of expenses .		15,293 23

Balance overdrawn, transferred into treasury .	\$293 23
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Read Fund.

Paid to the Newton Cemetery Corporation, by order of City Council	\$300 00
Paid to the trustees of the Read Fund, by order of City Council	39,700 00
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Total, as per item No. 36 of expenses .	\$40,000 00

Removal of Ashes.

Appropriation	\$3,000 00
John A. Kenrick, treasurer, labor, men, and teams, highway de- partment	\$2,227 60
Sabin & Page, blankets, etc. . . .	21 50
Cranitch & Horrigan, material and labor	6 00
<hr/>	
<i>Amounts carried forward</i> . . .	\$2,255 10
	\$3,000 00

<i>Amounts brought forward</i>	.	\$2,255 10	\$3,000 00
J. R. McLaughlin, care of sick horse		6 00	
W. H. Mague, use of horse		4 50	
		<hr/>	
Total, as per item No. 37 of expenses			2,265 60
			<hr/>
Balance unexpended, transferred into treasury			\$734 40

Salaries.

Appropriation		\$14,500 00
William P. Ellison, mayor	\$1,000 00	
Edwin O. Childs, city clerk	500 00	
Isaac F. Kingsbury, city clerk	1,350 00	
John A. Kenrick, city treasurer, and collector of taxes	2,700 00	
Benjamin F. Otis, city auditor	2,000 00	
Winfield S. Slocum, city solicitor	1,000 00	
Isaac Hagar, chairman of board of assessors	1,200 00	
Samuel M. Jackson, assessor	750 00	
Howard B. Coffin, assessor	750 00	
J. D. Wellington, city messenger	1,100 00	
J. D. Wellington, sealer of weights and measures	75 00	
Albert S. Glover, clerk of common council	200 00	
F. M. Trowbridge, deputy collector,	91 67	
Moses Clark, jun., deputy collector,	787 50	
Dexter Whipple, assistant assessor, Ward 1	44 00	
Joseph Walker, assistant assessor, Ward 2	72 00	
O. F. Lucas, assistant assessor, Ward 3	40 00	
		<hr/>
<i>Amounts carried forward</i>	.	\$13,660 17
		<hr/>
		\$14,500 00

<i>Amounts brought forward</i>	. \$13,660 17	\$14,500 00
Rufus Moulton, assistant assessor,		
Ward 4	56 00	
S. N. Woodward, assistant assessor,		
or, Ward 5	58 00	
George Warren, assistant assessor,		
Ward 6	78 00	
John Warner, assistant assessor,		
Ward 7	56 00	
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Total, as per item No. 38 of expenses	. 13,908 17	
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Balance unexpended, transferred into treasury,		\$591 83

Schools.

GENERAL APPROPRIATION, EDUCATIONAL DEPARTMENT.

General appropriation for schools,	\$85,500 00	
Received from dog tax	1,075 26	
<hr/>		
		\$86,575 26

EXPENDITURES IN DETAIL.

John E. Kimball, superintendent .	\$2,700 00	
Isaac Hagar, sec'y school board .	300 00	
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	\$3,000 00	

HIGH SCHOOL.

Edward H. Cutler, head master .	2,800 00	
Ezra W. Sampson, master . .	2,000 00	
S. Warren Davis, assistant master,	1,518 75	
S. Alice Worcester, assistant .	1,000 00	
Caroline Spear, assistant . .	1,000 00	
M. Abby Smith, assistant . .	1,000 00	
Maybell P. Davis, assistant . .	968 75	
Evelyn Rich, assistant . . .	918 75	
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<i>Amounts carried forward</i>	. \$14,206 25	\$86,575 26
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Amounts brought forward . \$14,206 25 \$86,575 26

SPECIAL TEACHERS.

Mrs. Emma F. Bowler, drawing and writing	500 00
Adeline V. Pond, drawing and writing	300 00
Jennie E. Ireson, calisthenics and elocution	500 00
Timothy L. Roberts, music . . .	1,425 00
M. Abby Smith, music	25 00
Isaac H. Houghton, military drill .	390 00
Ellen L. Bond, sewing	168 75
Julia Grant, sewing	168 75

MASON SCHOOL.

Albert L. Harwood, master . . .	1,900 00
Sarah H. Munger, head assistant .	750 00
Della E. Dodge, assistant . . .	600 00
Maria F. Wood, assistant . . .	600 00
Mary Tenney, assistant	600 00
Susan C. Wood, assistant	225 00
Lizzie S. Friend, assistant . . .	495 00
Myra A. Wilson, assistant	320 00
Margaret Martin, assistant . . .	600 00
Ellen M. Cook, assistant	600 00
Mary Jordan, assistant	375 00
Jennie C. Harwood, assistant . . .	183 00
Sarah E. Case, assistant	162 50
Belle Blodgett, substitute teacher,	6 75
Fannie A. Brackett, substitute teacher	4 50
Mrs. E. C. Clark, substitute teacher,	2 25
Clara A. Farwell, sub. teacher . .	2 25

Amounts carried forward . \$25,110 00 \$86,575 26

Amounts brought forward . \$25,110 00 \$86,575 26

OAK HILL SCHOOL.

C. Howard Wilson, principal . 750 00
Miss Annie E. Bancroft, assistant, 150 00

THOMPSONVILLE SCHOOL.

Helen A. Davis, principal . 750 00

HYDE SCHOOL.

George A. Moore, master . 1,537 50
Charlotte E. Cameron, head assis't, 750 00
Gertrude Blackmer, assistant . 518 75
Mabel R. Wetherbee, assistant . 568 75
Phebe E. Churchill, assistant . 600 00
Mary E. Hyde, substitute teacher, 1 13
Mary E. Chapin, substitute teacher, 1 13

PROSPECT SCHOOL.

Walter C. Frost, master . 1,837 50
Martha L. Perkins, head assistant, 750 00
Ella F. Crooker, assistant . 600 00
Kate P. Richardson, assistant . 375 00
Lucy A. Hayward, assistant . 225 00
Lizzie W. Everett, assistant . 600 00
Mary P. Fanning, assistant . 600 00
Addie A. Scott, substitute teacher, 4 50
Jennie Freeman, sub. teacher . 2 25

HAMILTON SCHOOL.

Luther E. Leland, master . 1,900 00
Anna G. Swain, head assistant . 750 00
Ellen M. Leland, assistant . 600 00
Sarah H. Jumper, assistant . 600 00

Amounts carried forward . \$39,581 51 \$86,575 26

Amounts brought forward . \$39,581 51 \$86,575 26

WILLIAMS SCHOOL.

George L. Chandler, master . .	1,837 50
Elizabeth A. Pinnock, head assis't,	750 00
Louise N. Burbank, assistant . .	568 75
Laura Saltonstall, assistant . .	600 00
Dora A. Allen, assistant . .	187 50
Hattie A. Ingraham, assistant . .	518 75
Ann B. Smith, assistant . .	600 00

PIERCE SCHOOL.

Levi F. Warren, master . .	1,900 00
Sarah A. Warren, head assistant . .	750 00
M. Alice Warren, assistant . .	518 75
Eliza E. Simmons, assistant . .	600 00
Helen S. Tolman, assistant . .	187 50

DAVIS SCHOOL.

Ella G. Bates, principal . .	750 00
A. Calista Hale, assistant . .	312 50
Calista S. Wood, assistant . .	225 00
Susan E. Copeland, assistant . .	600 00
Sarah E. Foster, assistant . .	600 00
Jennie M. Daniels, assistant . .	165 00

FRANKLIN SCHOOL.

Elizabeth F. Paddock, principal . .	750 00
M. Isabel Jenkins, assistant . .	600 00
Emma J. Thompson, assistant . .	600 00
Margaret A. Mague, assistant . .	518 75

ADAMS SCHOOL.

William A. Spinney, master . .	1,837 50
V. E. Hapgood, head assistant . .	750 00

Amounts carried forward . \$56,309 01 \$86,575 26

<i>Amounts brought forward</i>	.	\$56,309 01	\$86,575 26
Abbie J. Fiske, assistant	.	518 75	
Estella M. Haynes, assistant	.	600 00	
Belle Blodgett, assistant	.	200 00	
Lydia A. Brierley, assistant	.	135 00	
Angelia A. Smith, assistant	.	175 00	
Lottie E. Stearns, sub. teacher	.	2 25	
Cora S. Fiske, substitute teacher	.	1 88	

CLAFLIN SCHOOL.

Herbert F. Sylvester, principal	.	1,018 75	
Lilla T. Wilder, assistant	.	600 00	
Mary R. Ware, assistant	.	600 00	
Lizzie Jones, assistant	.	600 00	
Emmeline F. Tucker, assistant	.	375 00	
Lydia A. Brierley, assistant	.	225 00	

JACKSON SCHOOL.

George G. Edwards, principal	.	1,537 50	
H. Augusta Millard, assistant	.	600 00	
Gertrude G. Tewksbury, assistant,		518 75	
Louise W. Clelland, assistant	.	600 00	
Abby J. Clark, assistant	.	600 00	
Eliza J. Lovely, assistant	.	568 75	
Lottie E. Stearns, assistant	.	279 75	
Gertrude H. Smead, assistant	.	175 00	
M. J. Morehouse, sub. teacher	.	4 50	
Annie F. Merrill, sub. teacher	.	2 25	
Nellie Tewksbury, sub. teacher	.	2 25	
Cora S. Fiske, substitute teacher	.	1 98	

BIGELOW SCHOOL.

H. Chapin Sawin, master	.	1,900 00	
Eudora Sanford, head assistant	.	243 75	

<i>Amounts carried forward</i>	.	\$68,395 12	\$86,575 26
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<i>Amounts brought forward</i>	.	\$68,395 12	\$86,575 26
Martha M. Bakeman, head assis't	.	461 25	
Annie E. George, assistant	.	405 00	
S. Louise Shelton, assistant	.	600 00	
Augusta A. Lentell, assistant	.	600 00	
Mary H. Dwyer, assistant	.	504 00	
Alice E. Locke, assistant	.	375 00	
Elizabeth Ayles, assistant	.	187 50	
Fannie A. Brackett, assistant	.	162 50	
Emily J. Dyer, assistant	.	80 00	
Clara A. Farwell, assistant	.	37 50	

UNDERWOOD SCHOOL.

Emma M. Cleary, principal	.	750 00	
Annie L. Wood, assistant	.	600 00	
Lizzie C. Clark, assistant	.	568 75	
Josephine W. Littlefield, assistant,		600 00	
Nellie B. Littlefield, assistant	.	90 00	
Lottie E. Stearns, sub. teacher	.	2 82	
Mary A. Wellington, sub. teacher,		2 07	

LINCOLN SCHOOL.

Allotta C. Wilmarth, principal	.	600 00	
Nellie B. Rand, assistant	.	152 25	
Jennie L. Butler, sub. teacher	.	1 88	

JANITORS.

John Cummings, High and Claflin,		650 00	
Thomas Woodman, Mason	.	540 00	
John Mohr, Thompsonville	.	96 00	
Willie E. Wiswall, Oak Hill	.	96 00	
Enoch Houston, Hyde	.	240 00	
Joshua L. Randall, Prospect	.	360 00	
James H. Boit, Hamilton	.	216 00	

<i>Amounts carried forward</i>	.	\$77,373 64	\$86,575 26
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<i>Amounts brought forward</i>	.	\$77,373 64	\$86,575 26
Martin Walsh, Williams	.	275 00	
Thomas Johnson, Pierce and Davis,		425 00	
Bridget Cox, Franklin	.	200 00	
Mary Delaney, Adams	.	240 00	
Mary Walsh, Jackson	.	240 00	
John McCamman, Bigelow, Under-			
wood, and Lincoln	.	626 00	
John Dorney, Claflin	.	40 00	

FUEL.

Albert Brackett, coal	.	4,601 14	
George Warren & Co., coal and			
wood	.	258 75	
C. F. Eddy & Co., coal and wood,		236 37	
T. W. Nickelson, coal and wood	.	129 20	
J. W. Pearson, coal and wood	.	22 30	
Almshouse department, wood	.	189 00	

Total, as per item No. 39 of expenses	.	84,856 40
Balance unexpended, transferred into treas.	.	\$1,718 86

School Incidentals.

Appropriation	.	\$10,000 00
Knight, Adams, & Co., books, sta-		
tionery, etc.	.	\$3,322 78
William Ware & Co., books	.	222 12
Thompson, Brown, & Co., books	.	74 50
T. W. Gilson, books	.	72 00
Iverson, Blakeman, Taylor, & Co.,		
books	.	22 50
Robert S. Davis & Co., books	.	18 06
Henry C. Nash, books	.	6 00
Boston School Supply Co., maps	.	13 75
W. E. Sheldon, bookcase	.	14 00

<i>Amounts carried forward</i>	.	\$3,765 71	\$10,000 00
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<i>Amounts brought forward</i>	\$3,765 71	\$10,000 00
J. D. F. Brooks, rebinding books	52 05	
Henry McElwain, blackboards	689 47	
Rand, Avery, & Co., printing reports, etc.	324 00	
George H. Pratt, printing, etc.	292 25	
Transcript Publishing Company, printing, etc.	12 25	
The Newton Graphic, printing, etc.,	11 00	
George W. Lane, printing, etc.	7 50	
Alfred Mudge & Son, printing, etc.,	6 50	
A. G. Whitcomb, school furniture,	714 92	
A. E. Lawrence, sundry cash expenses	38 84	
E. W. Sampson, sundry cash expenses	38 21	
Charles L. Bartlett, sundry cash expenses	25 00	
Isaac Hagar, sundry cash expenses,	21 79	
J. E. Kimball, sundry cash expenses	21 75	
W. C. Frost, sundry cash expenses,	10 16	
Water department, use of water	443 00	
N. & W. Gaslight Company, gas	35 75	
George E. Bridges, taking census of children from 5 to 15	60 00	
E. S. Ritchie & Sons, apparatus and repairs	112 40	
J. H. Daniels, diplomas for graduating class	94 45	
James Claffy, cleaning vaults	249 00	
S. C. Ayres, clocks and repairing	63 00	
George W. Choate, repairs on clocks	47 50	
A. J. Macomber, repairs on clocks,	16 50	
<i>Amounts carried forward</i>	\$7,153 00	\$10,000 00

<i>Amounts brought forward</i>	\$7,153 00	\$10,000 00
A. Phipps, repairs on clocks	15 00	
G. H. Brown, tuning pianos	38 50	
J. D. Henthorn, services as truant officer	25 00	
C. O. Davis, services as truant officer	25 00	
John Ryan, services as truant officer	25 00	
John Purcill, services as truant officer	25 00	
C. P. Huestis, services as truant officer	25 00	
Charles H. Jenison, expressage	30 85	
C. E. Perry, expressage	3 20	
A. M. Fuller, use of team	10 00	
J. T. Hill, use of team	9 00	
J. E. Dow, beating carpet	8 40	
J. Goldthwait & Co., making carpet	6 72	
Higgins & Nickerson, material and labor	385 33	
James McGourty material and labor	197 82	
Milo Lucas, material and labor	130 68	
O. B. Leavitt, material and labor,	124 22	
J. C. Farrar, material and labor	118 65	
H. F. Wellington, material and labor	117 31	
Cranitch & Horrigan, material and labor	111 11	
O. F. Lucas, material and labor	50 07	
J. L. Randall, material and labor	47 94	
G. T. Weston, material and labor,	47 75	
S. J. Smith, material and labor	40 00	
<i>Amounts carried forward</i>	<hr/> \$8,770 55	<hr/> \$10,000 00

<i>Amounts brought forward</i>	\$8,770 55	\$10,000 00
A. W. Snow, material and labor	39 91	
W. F. Soule, material and labor	39 50	
Isaac Smith, material and labor	37 70	
C. S. Phillips, material and labor	25 31	
R. O. Evans, material and labor	25 25	
Allen Jordan, material and labor	21 75	
W. J. Wilson, material and labor,	21 75	
Lewis A. Gammons, material and labor	21 45	
T. J. Hartnett, material and labor,	19 71	
W. B. Alexander, material and labor	19 15	
A. T. Ring, material and labor	13 46	
G. M. D. Fernald, material and labor	13 17	
Edward Pike, material and labor	12 80	
Murray & Farrell, material and labor	10 33	
Walworth Manufacturing Company, material and labor	7 15	
W. B. Sadler, material and labor	7 00	
Alfred Hopkins, material and labor,	6 00	
J. L. Sears, material and labor	3 60	
Eben C. Clark, material and labor,	3 45	
J. F. Franklin, material and labor,	3 00	
W. A. Roffe, material and labor	2 25	
P. A. Murray, material and labor	2 10	
Peabody & Whitney, supplies	311 56	
Thayer & Stiles, supplies	42 15	
O. Lappen & Co., supplies	23 75	
J. E. Trowbridge, supplies	18 45	
American Soapstone Finish Company, supplies	12 00	
C. W. Morehouse, supplies	9 70	
<i>Amounts carried forward</i>	\$9,543 95	\$10,000 00

<i>Amounts brought forward</i>	.	\$9,543 95	\$10,000 00
Isaac D. Allen & Co., supplies	.	4 70	
Hektograh Manufacturing Com- pany, supplies	. . .	4 23	
Greenwood & Co., supplies	. .	3 42	
W. D. Higgins, supplies	. .	3 00	
Carter, Harris, & Hawley, supplies,		2 86	
E. E. Moody, supplies	. . .	2 55	
Auburndale Watch Co., supplies	.	2 50	
W. O. Knapp & Co., supplies	.	2 42	
G. Wadleigh, supplies	. . .	2 30	
Boynton & Marsh, supplies	. .	2 24	
J. B. Murphy, supplies	. .	2 00	
Boston Terra Cotta Co., supplies	.	2 00	
Mrs. H. M. Quinby, supplies	.	2 00	
C. H. Dolan, removing ashes	.	26 26	
J. McGrath, removing ashes	. .	4 00	
M. Conners, removing ashes	. .	3 00	
J. H. Boit, removing ashes	. .	2 50	
S. B. Maxwell, removing ashes	.	2 50	
G. M. Cox, removing ashes	. . .	2 25	
Mary Tomy, cleaning schoolhouse,		14 70	
Mrs. Farrell, cleaning schoolhouse,		13 50	
Mrs. Cary, cleaning schoolhouse	.	12 10	
Willie E. Wiswall, cleaning school- house	. . . . .	11 25	
Mrs. Dexter, cleaning schoolhouse,		10 00	
Mrs. Garey, cleaning schoolhouse	.	9 30	
Mrs. Walsh, cleaning schoolhouse,		9 10	
Mrs. Hughes, cleaning schoolhouse,		8 40	
Mrs. Delaney, clean'g schoolhouse,		8 30	
W. Delaney, cleaning schoolhouse	.	7 20	
Bridget Kinchella, cleaning school- house	. . . . .	6 60	
Mary Brooks, clean'g schoolhouse,		6 00	
<i>Amounts carried forward</i>	.	\$9,737 13	\$10,000 00

<i>Amounts brought forward</i> .	\$9,737 13	\$10,000 00
Mrs. McGrath, cleaning schoolhouse	6 00	
Mrs. Cummings, cleaning schoolhouse	5 84	
Mary Mead, cleaning schoolhouse,	5 33	
Mrs. Connor, cleaning schoolhouse,	4 25	
Rose Burke, cleaning schoolhouse,	3 67	
Mrs. Liberty, cleaning schoolhouse,	3 40	
Mrs. Marshall, clean'g schoolhouse,	3 20	
Mrs. Burt, cleaning schoolhouse .	3 00	
Mrs. Collins, cleaning schoolhouse,	3 00	
Mrs. Mulloy, cleaning schoolhouse,	2 56	
Mrs. Wallace, clean'g schoolhouse,	2 20	
Sundry small bills	15 15	

Total, as per item No. 40 of expenses .	9,794 73
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Balance unexpended, transferred into treasury,	\$205 27
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Sidewalks.

Appropriation	\$6,000 00
Additional appropriation, by order of City Council	261 30
	<hr/>
	\$6,261 30

John A. Kenrick, treasurer, paid for labor, highway department,	\$3,270 53
Simpson Brothers, concreting .	2,692 43
C. H. & A. F. Ireland, material and labor	297 19
M. W. Sands, brick	40 50

Total, as per item No. 41 of expenses .	6,300 65
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Balance overdrawn, transferred into treasury .	\$39 45
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Sinking Fund, City Debt.

Appropriation	\$20,800 00
Amount paid commissioners of sinking fund, as per item No. 42 of expenses . . .	20,800 00

Sinking Fund, Water Bonds.

Special appropriation	\$16,000 00
Amount paid commissioners of sinking fund, as per item No. 43 of expenses . . .	16,000 00

Street Light Department.

Appropriation	\$20,000 00
Newton and Watertown Gaslight Co., gas and care of street- lamps	\$13,228 50
Newton and Watertown Gaslight Co., iron posts, lanterns, and frames	339 50
Newton and Watertown Gaslight Co., glass, repairs, etc. . . .	407 03
Wheeler Reflector Company, light- ing and care of street-lamps .	1,850 34
The Ritchie Street Lighting Co., lighting and care of street- lamps	1,650 41
George A. Torrey, lighting and care of street-lamps . . .	487 75
W. J. Towne, material, care of lamp, etc.	13 50
Samuel Walker & Co., naphtha .	341 80
Globe Gaslight Co., naphtha, and rent of fixtures	277 88
Alta Manufacturing Co., iron posts, lanterns, etc.	211 42
<i>Amounts carried forward .</i>	<i>\$18,808 13</i>
	<i>\$20,000 00</i>

<i>Amounts brought forward</i>	.	\$18,808 13	\$20,000 00
Nathaniel Tufts, lanterns . . .	.	54 75	
Thomas Hart, lighting lamps . . .	.	468 30	
C. A. Gowell, lighting lamps . . .	.	192 60	
Lewis Watson, lighting lamps . . .	.	127 10	
Charles Watson, lighting lamps . . .	.	40 80	
William Ayles, lighting lamps . . .	.	21 60	
Robert Gaw, lighting lamps . . .	.	21 60	
Thomas Hart, repairing, setting posts, etc. . . . .	.	158 21	
James Scully, repairing, setting posts, etc. . . . .	.	23 50	
D. J. O'Donnell, repairing . . .	.	2 75	
Thomas Belger, repairing . . .	.	1 50	
G. M. Bridges, postal cards and printing . . . . .	.	13 00	
Bragdon & Son, expressage . . .	.	20 20	
C. E. Perry, expressage . . .	.	16 50	
Johnson & Keyes, expressage . . .	.	12 90	
W. H. McIntosh, expressage . . .	.	5 50	
C. G. Tinkham, use of teams . . .	.	8 00	
		<hr/>	
Total, as per item No. 44 of expenses . . .	.	19,996 94	
		<hr/>	
Balance unexpended, transferred into treasury . . .	.	\$3 06	

State Aid.

Appropriation . . . . .	.	\$1,300 00	
Benjamin E. Sweetland . . .	.	\$102 00	
William Watson . . . . .	.	72 00	
N. D. Tibbetts . . . . .	.	54 00	
Thomas Dolan . . . . .	.	48 00	
Ann Duvall . . . . .	.	48 00	
M. Hagerty . . . . .	.	48 00	
Bridget Madden . . . . .	.	48 00	
		<hr/>	
<i>Amounts carried forward</i> . . .	.	\$420 00	\$1,300 00

<i>Amounts brought forward</i>	.	\$420 00	\$1,300 00
Eliza M. Jackson . . . .	.	48 00	
E. Burke . . . . .	.	48 00	
Mary Duran . . . . .	.	48 00	
Anna C. Boyd . . . . .	.	48 00	
Sarah Fell . . . . .	.	48 00	
Catherine McAleer . . . .	.	48 00	
Agnes Myers . . . . .	.	48 00	
George Hutchinson . . . .	.	48 00	
Bridget A. Wright . . . .	.	48 00	
Margaret McGuire . . . .	.	24 00	

Total, as per item No. 45 of expenses . 876 00

Balance unexpended, transferred into treasury, \$424 00

Taxes, 1883.—State.

Amount assessed for State tax	\$24,135 00
Amount paid to state treasurer, as per item No. 46 of expenses	24,135 00

Taxes, 1883.—County.

Amount assessed for county tax	\$15,150 75
Amount paid to county treasurer, as per item No. 47 of expenses	15,150 75

Taxes, 1883.—National Bank.

Amounts paid to Commonwealth of Massachusetts for non-residents of Newton, National Bank shares, as per item No. 48 of expenses,	\$1,080 13
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Temporary Loans, 1883.

June 30. Paid Commonwealth of Massachusetts	\$45,000 00
Nov. 5. Paid Commonwealth of Massachusetts	55,000 00
<i>Amount carried forward</i> .	<u>\$100,000 00</u>

<i>Amount brought forward</i>	. \$100,000 00	
Nov. 6. Paid Commonwealth of Massachusetts	25,000 00	
Nov. 8. Paid National Bank of Redemption	100,000 00	
Nov. 9. Paid Suffolk Savings In- stitution	40,000 00	
Dec. 1. Paid Suffolk Savings In- stitution	50,000 00	
	<hr/>	
Total, as per item No. 49 of expenses	.	\$315,000 00

United States Street Lighting Company.

Transferred to the city of Newton for non-ful- filment of contract by the United States Street Lighting Company, as per item No. 50 of expenses	\$500 00
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Use of Hydrants.

Appropriation	\$7,520 00
Water department	\$7,520 00
	<hr/>
Total, as per item No. 51 of expenses	7,520 00

Water Maintenance.

Appropriation	\$13,500 00	
Additional appropriation, by order of City Council	3,000 00	
	<hr/>	
		\$16,500 00
Albert S. Glover, services as regis- trar	\$1,800 00	
Albert S. Glover, sundry cash ex- penses	67 04	
H. N. Hyde, jun., services as super- intendent	1,500 00	
	<hr/>	
<i>Amounts carried forward</i>	. \$3,367 04	\$16,500 00

<i>Amounts brought forward</i>	.	\$3,367 04	\$16,500 00
H. N. Hyde, jun., sundry cash expenses	. . . . .	29 86	
J. C. Whitney, services as insp'r,		724 93	
Thomas Coughlan, services as engineer	. . . . .	1,200 00	
Pay-rolls of laborers	. . . . .	4,748 91	
Hills & Bullens, coal	. . . . .	3,149 49	
T. W. Nickelson, coal	. . . . .	77 06	
Albert Brackett, coal	. . . . .	39 75	
Daniel Sullivan, wood	. . . . .	165 78	
T. W. Nickelson, teaming coal	. . . . .	98 00	
J. E. Cahill, teaming coal	. . . . .	25 30	
J. E. Tolman, exchange on horse	. . . . .	135 00	
Trumbull & Cheney, material and labor	. . . . .	464 12	
A. C. Richmond, material and labor	. . . . .	305 50	
C. S. Phillips, material and labor	. . . . .	105 00	
Higgins & Nickerson, material and labor	. . . . .	55 68	
Cranitch & Horrigan, material and labor	. . . . .	37 50	
Pettee Machine Works, material and labor	. . . . .	8 71	
M. S. Hodgson, material and labor,		3 57	
John Harris, making coffer-dam	. . . . .	167 00	
Leonard & Ellis, oil	. . . . .	171 05	
A. H. Davenport, office-furniture,		72 00	
J. G. Gooch, lumber	. . . . .	52 10	
George McQuesten & Co., lumber,		19 16	
T. Albert Ward, care of reservoir,		50 00	
Isburgh & Walker, sleigh	. . . . .	50 00	
Hartford Steam Boiler Insurance Company, policy	. . . . .	45 00	
<i>Amounts carried forward</i>	.	\$15,367 51	\$16,500 00

<i>Amounts brought forward</i>	. \$15,367 51	\$16,500 00
Stewart, Antcliff, & Co., rent of canvas	25 00	
Fred H. Barnes, services as assist- ant engineer	80 00	
I. W. Hasting, services as assistant engineer	45 00	
R. H. Richards, services at pump- ing station	45 00	
Lawrence Daniels, services	26 25	
S. B. Conlan, services	15 00	
Richard Adams, services	10 00	
H. B. Stoddard, Prof., services . . .	10 00	
Carl Russell, services	3 00	
Timothy Stuart, labor, men, and teams	23 63	
Gardner Chilson, stove	19 00	
J. O. Watson, manure	16 00	
G. E. Young, dory	15 00	
N. & W. Gaslight Company, gas . . .	11 75	
Sherburne & Co., waste	10 30	
Arthur Hudson, analysis of water, . .	5 00	
Eben Smith, frames	4 80	
Davis & Farnum Manufacturing Company, castings	4 00	
Transcript Publishing Company, printing	3 50	
C. H. Jenison, expressage	2 65	
B. F. Barlow, blacksmithing	13 89	
Murray & Farrell, blacksmithing . .	5 86	
E. Smead & Co., grain	64 20	
Lev Miles, hay	17 64	
Cyrus Conant, hay	9 11	
T. A. Ward, hay	3 29	
Stephen F. Cate, use of teams	92 50	
<i>Amounts carried forward</i>	. \$15,948 88	\$16,500 00

<i>Amounts brought forward</i>	.	\$15,948 88	\$16,500 00
D. Harrington & Son, use of teams,		16 00	
W. H. Mague, use of teams . . .		13 25	
Nonantum Stables, use of teams .		12 50	
J. T. Hill, use of teams . . .		8 75	
A. Harris, use of teams . . .		2 00	
H. R. Worthington, supplies . .		82 50	
Waldo Brothers, supplies . . .		52 94	
H. & S. Chase, supplies . . .		20 37	
Boynton & Fellows, supplies . .		15 90	
H. W. Wellington, supplies . .		11 50	
B. Billings, supplies		10 21	
T. J. Hartnett, supplies . . .		10 15	
Walworth Manufacturing Com- pany, supplies		9 16	
O. B. Leavitt, supplies		9 15	
G. Wadleigh, supplies		5 29	
G. H. Ingraham, supplies . . .		4 00	
J. A. & W. Bird & Co., supplies .		3 75	
Atherton & Co., supplies . . .		3 26	
Chapman Valve Co., supplies . .		2 73	
Boston Machine Co., supplies . .		2 63	
C. W. Morehouse, supplies . . .		2 44	
Lustralis Manufacturing Company, supplies		2 00	
Sundry small bills		16 65	
		<hr/>	
Total, as per item No. 52 of expenses .	.	16,266 01	
		<hr/>	
Balance unexpended, transferred into treasury .	.	\$233 99	

Water-Meters and Service-Pipe.

Appropriation		\$5,500 00
Pay-roll of laborers	\$1,767 15	
National Meter Co., meters, etc. .	1,542 57	
		<hr/>
<i>Amounts carried forward</i>	.	\$3,309 72
		<hr/>
		\$5,500 00

<i>Amounts brought forward</i>	\$3,309 72	\$5,500 00
Union Water Meter Company, repairing meters, etc.	245 00	
H. R. Worthington, repairing meters, etc.	17 91	
National Tube Works, pipe, etc.	1,087 66	
Walworth Manufacturing Company, pipe and supplies	47 51	
J. C. Whitney, services as inspector,	325 82	
Ward & Curley, supplies	155 64	
Jenkins Brothers, supplies	13 52	
Atherton & Co., supplies	6 52	
Sabin & Page, supplies	2 08	
E. Smead & Co., grain	98 85	
Cyrus Conant, hay	18 18	
L. Miles, hay	7 56	
T. A. Ward, hay	6 58	
B. F. Barlow, blacksmithing	32 34	
Murray & Farrell, blacksmithing	8 49	
P. A. McVicar, blacksmithing	3 00	
H. N. Hyde, jun., sundry cash expenses	19 35	
Chapman Valve Manufacturing Company, valves, etc.	15 00	
Chadwick Lead Works	9 85	
Boston and Albany R.R., freight	15 55	
S. F. Cate, use of teams	7 75	
D. Harrington & Son, use of teams,	5 00	
J. R. McLaughlin, care of sick horse	2 00	
T. J. Hartnett, material and labor,	12 85	
M. S. Hodgson, material and labor,	7 14	
A. W. Snow, material and labor	5 90	
Sundry small bills.	11 88	

Total, as per item No. 53 of expenses . . . 5,498 65

Balance unexpended, transferred into treasury . . . \$1 35

Water Construction.

Total expenditure to Dec. 31, 1882 . . .	\$911,189 65	
Pay-roll of laborers . . .	\$10,319 00	
Warren Foundry and Machine Co., iron pipe . . .	9,786 19	
Davis & Farnum Manufacturing Company, castings, etc. . .	1,963 10	
Boston Machine Co., hydrants, etc.,	1,201 80	
National Tube Works Company, pipe, etc.	872 94	
R. M. Morse, jun., legal services .	725 00	
Peter Thacher, legal services .	313 95	
Chapman Valve Manufacturing Company, valves, etc. . .	658 13	
Chadwick Lead Works, lead .	668 95	
Boston and Albany R.R., freight .	697 66	
N. Y. and N. E. Railroad, freight .	36 16	
City Iron Foundry and Chain Works, gate boxes . . .	409 82	
The Coffin Valve Co., 3 screens .	310 00	
American Ash Felting Co., felting,	270 00	
M. W. Sands, brick . . .	260 00	
George A. Goodyear, powder and fuse	251 78	
S. B. Everett & Son, pulsometer pump	173 00	
R. T. Rollins, resetting boilers .	310 00	
Higgins & Nickerson, material and labor	1,606 22	
A. B. Franklin, material and labor,	771 30	
Walworth Manufacturing Com- pany, material and labor .	601 86	
F. Low & Co., material and labor .	573 25	
Pettee Machine Works, material and labor	270 70	
<i>Amounts carried forward</i> .	\$33,050 81	\$911,189 65

<i>Amounts brought forward</i> .	\$33,050 81	\$911,189 65
Henry Bellamy <i>et al.</i> , material and labor	214 50	
William Bemis, material and labor,	186 00	
O. B. Leavitt, material and labor .	90 57	
Walker & Pratt Manufacturing Co., material and labor . .	83 03	
John Foster <i>et al.</i> , material and labor	71 50	
H. A. Carson, material and labor .	41 55	
T. J. Hartnett, material and labor,	34 81	
W. A. Fogwell, material and labor,	13 13	
M. S. Hodgson, material and labor,	12 66	
John Keating, material and labor,	10 25	
Milo Lucas, material and labor .	3 88	
Arthur Muldoon, labor, men, and teams	403 00	
Timothy Stuart, labor, men, and teams	319 34	
C. H. Hale, labor, men, and teams,	117 58	
B. S. Grush, labor, men, and teams,	99 70	
Patrick Linnehan, labor, men, and teams	48 00	
A. L. Hale, labor, men, and teams,	3 50	
D. Harrington & Son, use of teams,	111 00	
S. F. Cate, use of teams . . .	37 25	
Nonantum Stables, use of teams .	5 00	
C. G. Tinkham, use of teams .	4 00	
W. H. Mague, use of teams . .	3 00	
B. F. Barlow, blacksmithing . .	118 08	
A. Danforth, agent, blacksmithing,	89 66	
J. C. Farrar, blacksmithing . .	75 75	
J. E. Keegan, blacksmithing . .	70 87	
Thomas Belger, blacksmithing . .	65 89	
D. J. Carroll, blacksmithing . .	62 65	
<i>Amounts carried forward</i> .	\$35,446 96	\$911,189 65

<i>Amounts brought forward</i>	. \$35,446 96	\$911,189 65
Murray & Farrell, blacksmithing .	25 20	
C. A. Cole, blacksmithing .	12 75	
P. A. McVicar, blacksmithing .	11 80	
E. Smead & Co., grain . . .	163 04	
Cyrus Conant, hay . . .	27 28	
Levi Miles, hay . . .	25 24	
T. A. Ward, hay . . .	9 87	
F. Jones, expressage . . .	41 64	
C. E. Perry, expressage . . .	21 55	
F. H. Hunting, expressage . . .	10 25	
G. Fuller & Son, lumber . . .	43 67	
J. G. Gooch, lumber . . .	25 47	
Fiske & Coleman, drain pipe .	33 40	
American Fire Hose Manufactur- ing Company, hose . . .	31 95	
Thomas McKinley, inspection of pipe	30 00	
J. O. Watson, manure	26 00	
Gould Packing Company, packing,	23 76	
Hockridge Brothers, steel . . .	17 88	
William Leonard for medical at- tendance	15 00	
Waters & Inman, cement, etc. .	14 35	
Rockwell & Moseley, powder .	10 50	
Newton and Watertown Gaslight Company, coke	10 00	
Simpson Brothers, concreting .	10 00	
Speare, Gregory, & Co., oil . . .	8 71	
Jenkins Brothers, cotton waste .	7 60	
Haskins & Montague, rent of can- vas	6 35	
H. N. Hyde, jun., sundry cash ex- penses	4 56	
C. F. Eddy & Co., cement . . .	3 60	
<i>Amounts carried forward</i>	. \$36,118 38	\$911,189 65

<i>Amounts brought forward</i>	.	\$36,118 38	\$911,189 65
Fulton Iron Foundry, supplies	.	3 00	
J. R. McLaughlin, care of sick horse	.	3 00	
Waldo Brothers, supplies	.	373 90	
Ward & Curley, supplies	.	135 40	
H. M. Darling & Co., supplies	.	84 73	
Parker & Gannett, supplies	.	72 57	
Dodge, Gilbert, & Co., supplies	.	39 80	
Sewall & Day Cordage Company, supplies	.	38 71	
George Warren & Co., supplies	.	22 10	
Boston Fire Brick Works, supplies,		20 47	
G. Wadleigh, supplies	.	17 39	
Parker Holmes & Co., supplies	.	11 81	
A. J. Wilkinson & Co., supplies	.	11 21	
Boston Belting Company, supplies,		10 08	
Atherton & Co., supplies	.	9 78	
Chandler & Farquhar, supplies	.	9 09	
C. W. Morehouse, supplies	.	9 01	
J. E. Trowbridge, supplies	.	6 35	
Hall Rubber Company, supplies.	.	5 20	
A. A. Savage, supplies	.	3 83	
United States Metallic Company, supplies	.	3 60	
Samuel May & Co., supplies	.	3 40	
Sabin & Page, supplies	.	3 13	
Sherburne & Co., supplies	.	2 70	
Sundry small bills	.	22 05	

Total, as per item No. 54 of
expenses . . . \$37,040 69

Amounts carried forward . \$37,040 69 \$911,189 65

Amounts brought forward . \$37,040 69 \$911,189 65

RECEIVED.

Received from Peter
Thacher upon judgment in suit City of
Newton *vs.* Michael
Doherty, bondsman
for Devlin, Long, &
Moore . . . \$4,150 34

Received from Peter
Thacher for costs in
above-named suit . 473 79
Received for pipe sold . 594 28
Received for stone sold . 20 00

Total, as per item No.

45 of receipts . . . 5,238 41
31,802 28

Total expenditure to Dec. 31, 1883 . . \$942,991 93

SCHEDULE OF CITY PROPERTY, REAL AND PERSONAL.

Almshouse Department.

70 acres of land . . . \$7,000 00
Buildings . . . 8,000 00
Personal property . . . 3,947 35
\$18,947 35

City Hall Department.

City Hall, furniture and fixtures . \$50,000 00
City seal . . . 25 00
City stamps . . . 35 00
Reports, statutes, and special laws, 300 00

Amounts carried forward . \$50,360 00 \$18,947 35

<i>Amounts brought forward</i>	. \$50,360 00	\$18,947 35
Set of standard weights and measures	100 00	
Record books	200 00	
Bookcases, maps, etc.	500 00	
	<hr/>	51,160 00

Cemetery Department.

Land in Newton Cemetery . . .	\$2,000 00	
Tomb in Newton Cemetery . . .	800 00	
	<hr/>	2,800 00

City Engineering Department.

Two transits, \$150 each . . .	\$300 00	
Three transits, \$100 each . . .	300 00	
Two levels, \$100 each . . .	200 00	
Draughting materials . . .	126 00	
Surveying materials . . .	48 00	
Tools	12 00	
Horse, wagon, etc.	350 00	
	<hr/>	1,336 00

Fire Department.

Steam fire-engine No. 1, apparatus, horses, and furniture . .	\$6,000 00	
Steam fire-engine No. 2, apparatus, horses, and furniture . .	6,000 00	
Steam fire-engine No. 3, apparatus, horses, and furniture . .	6,000 00	
Hook and ladder, truck, horses, etc., . .	3,300 00	
Hose No. 4, horse, hose, reel, etc., Newtonville	1,200 00	
Hose No. 5, horse, hose, reel, etc., Auburndale	1,200 00	
Hose No. 6, horse, hose, reel, etc., Lower Falls	1,500 00	
	<hr/>	
<i>Amounts carried forward</i>	. \$25,200 00	\$74,243 35

<i>Amounts brought forward</i>	\$25,200 00	\$74,243 35
Hose No. 7, hose-carriage, horse, hose, etc., Upper Falls	1,500 00	
Fire-alarm telegraph, including team, etc.	20,000 00	
	<hr/>	46,700 00

Fire and Highway Department Buildings.

Steam fire-engine house, stables, and land, Ward 7	\$13,000 00	
Steam fire-engine house, stables, and land, Ward 3	19,000 00	
Steam fire-engine house, stables, and land, Ward 6	19,000 00	
Hook and ladder and hose No. 4 house, stables, and land	17,500 00	
Hose station No. 5, stables and land, Auburndale	5,200 00	
Hose station No. 6, stables and land, Lower Falls	6,900 00	
Hose station No. 7, stables and land, Upper Falls	5,500 00	
	<hr/>	86,100 00

Free Library Department.

Newton Free Library, building and land	\$42,000 00	
Books	10,000 00	
	<hr/>	52,000 00

Gravel and Gravel Lands.

Land on Jewett Street, Ward 1	\$2,000 00	
Land on California Street, Ward 1,	6,600 00	
Land on Crafts Street, Ward 2	500 00	
Land on Chapel Street, Ward 2	100 00	
	<hr/>	
<i>Amounts carried forward</i>	\$9,200 00	\$259,043 35

<i>Amounts brought forward</i>	.	\$9,200 00	\$259,043 35
Land on Watertown St., Ward 2,		1,000 00	
Land on Faxon Street, Ward 2	.	200 00	
Land on Faxon Street, Ward 2	.	200 00	
Land on Auburndale Avenue,			
Ward 3		1,200 00	
Land on Pine Street, Ward 3	.	250 00	
Land on Pine Street, Ward 3	.	2,000 00	
Land on Pine Street, Ward 3	.	550 00	
Land on Bourne Street, Ward 4	.	9,000 00	
Gravel on Washington Street,			
Ward 4		1,000 00	
Gravel on Washington Street,			
Ward 4		1,400 00	
Gravel on Elliot Street, Ward 5	.	500 00	
Gravel on Parker Street, Ward 5	.	250 00	
Land east of Oak Street, Ward 5.		1,200 00	
Land on Willow and Centre			
Streets, Ward 6		500 00	
Land on Florence Street, Ward 5,		400 00	
Land on Florence Street, Ward 5,		1,500 00	
Land on Beacon Street, Ward 6	.	200 00	
Land on Homer Street, Ward 6	.	4,000 00	
		<hr/>	34,550 00

Highway Department.

1 steam road roller	\$6,000 00
22 cart horses, \$225	4,950 00
3 horses, \$100	300 00
2 horses for superintendent of sts.,	375 00
26 double and single carts	2,600 00
43 harnesses	850 00
4 double sleds, \$200	800 00
2 stone crushers and houses	4,600 00

<i>Amounts carried forward</i>	.	\$20,475 00	\$293,593 35
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<i>Amounts brought forward</i>	. \$20,475 00	\$293,593 35
2 stone wagons, wagon, carriage, and sleigh	525 00	
Tools, chains, derricks, blankets, etc.	1,800 00	
1 road-scraper	150 00	
	<hr/>	22,950

Lighting Department.

For 1,190 posts, lanterns, burners, etc., \$10 .	11,900 00
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Police Department.

Station-house, building and land, North Village	\$4,000 00	
Furniture and bedding	50 00	
Lock-up, furniture and bedding, Ward 1	1,050 00	
Lock-up, furniture and bedding, Ward 6	1,575 00	
Wagon and harness	150 00	
Horse, saddle, and bridle	200 00	
Horse, saddle, and bridle	125 00	
15 pairs handcuffs, \$3.75	56 25	
13 clubs, \$2	26 00	
6 lanterns, \$2.50	15 00	
16 badges	100 00	
15 parade clubs and belts, \$3.50	52 50	
Blankets	50 00	
Record books	50 00	
Furniture in station at City Hall	75 00	
	<hr/>	7,574 75
<i>Amount carried forward</i>		\$336,018 10

Amount brought forward . . . \$336,018 10

School Department.

High School buildings, furniture and land	\$57,000 00	
Mason schoolhouse, furniture and land	49,100 00	
Hyde schoolhouse, furniture and land	24,000 00	
Prospect schoolhouse, furniture and land	31,000 00	
Prospect schoolhouse No. 2, furni- ture and land	7,500 00	
Oak Hill schoolhouse, furniture and land	12,000 00	
Hamilton schoolhouse, furniture and land	28,000 00	
Williams schoolhouse, furniture and land	20,000 00	
Williams new schoolhouse and land	35,000 00	
Pierce schoolhouse, furniture and land	32,000 00	
Davis schoolhouse, furniture and land	13,000 00	
Franklin schoolhouse, furniture and land	15,000 00	
Claflin schoolhouse, furniture and land	35,000 00	
Adams schoolhouse, furniture and land	22,000 00	
Bigelow schoolhouse, furniture and land	42,000 00	
Underwood schoolhouse, furniture and land	24,000 00	

Amounts carried forward . \$446,600 00 \$336,018 10

<i>Amounts brought forward</i>	. \$446,600 00	\$336,018 10
Lincoln schoolhouse, furniture and land	5,500 00	
Jackson schoolhouse, furniture and land	15,000 00	
Elliot schoolhouse, furniture and land	19,000 00	
School apparatus	5,000 00	
	<hr/>	491,100 00

Water Department.

Building for pipe-fittings, etc., stable, and land,	3,500 00
3 horses, wagons, harness, etc.	500 00
	<hr/>
	\$831,118 10

For cost of water-works, see water-construction account.

Table showing the Number of Polls, Real and Personal Estate of the City, Amount of Tax, Rate per Cent, Appropriations, etc., for Twenty-Three Years.

A.D.	POLLS.	REAL ESTATE.	PERSONAL.	TOTAL.	CITY, STATE, AND COUNTY TAX.	RATE.	APPROPRIATIONS.	HOUSES.
1861	2,056	\$5,476,285 00	\$1,955,835 00	\$7,600,120 00	\$57,804 88	\$7 20	\$17,500 00	1,330
1862	1,989	5,476,805 00	2,443,821 00	7,922,620 00	56,599 17	6 60	35,000 00	1,374
1863	1,911	5,504,367 00	2,988,195 00	8,492,562 00	64,968 65	7 20	40,000 00	1,399
1864	2,046	5,637,755 00	2,309,021 00	7,946,776 00	78,000 55	9 50	52,500 00	1,421
1865	2,118	5,756,185 00	3,390,075 00	9,146,260 00	113,991 12	12 00	65,000 00	1,438
1866	2,297	6,394,835 00	4,566,724 00	10,955,559 00	114,149 59	10 00	75,000 00	1,491
1867	2,438	7,227,285 00	4,995,127 00	12,922,412 00	153,990 88	12 20	95,000 00	1,552
1868	2,736	9,104,567 00	5,366,602 00	14,441,169 00	193,208 88	13 00	160,000 00	1,671
1869	2,937	10,288,610 00	5,634,566 00	15,922,876 00	188,990 46	11 50	150,000 00	1,826
1870	3,065	11,407,070 00	6,330,922 00	17,737,992 00	222,514 71	12 20	185,000 00	2,077
1871	3,109	12,770,420 00	6,615,593 00	19,386,013 00	223,521 32	11 20	185,000 00	2,220
1872	3,420	15,792,950 00	8,463,904 00	24,256,854 00	334,314 87	13 50	291,050 00	2,392
1873	3,659	18,446,275 00	7,537,775 00	25,984,050 00	384,089 84	14 50	333,300 00	2,523
1874	3,917	20,032,800 00	8,048,345 00	28,081,445 00	372,893 53	13 00	320,000 00	2,657
1875	4,089	21,073,495 00	7,883,374 00	28,955,869 00	399,085 46	13 50	351,000 00	2,876
1876	4,334	21,128,120 00	7,072,845 00	28,200,965 00	392,201 13	13 60	350,004 99	3,004
1877	4,045	20,007,025 00	6,627,488 00	26,634,513 00	370,319 38	13 60	402,200 00	3,057
1878	3,882	18,604,105 00	6,408,825 00	25,012,930 00	352,942 43	13 80	378,400 00	3,150
1879	4,010	17,456,655 00	6,330,697 00	23,787,352 00	326,959 64	13 40	367,850 00	3,178
1880	4,132	17,718,270 00	7,481,830 00	25,200,100 00	361,139 40	14 00	388,525 00	3,214
1881	4,336	18,238,510 00	8,169,763 00	26,408,273 00	379,434 18	14 00	416,505 00	3,257
1882	4,502	18,930,485 00	7,405,233 00	26,335,718 00	383,633 00	14 20	423,930 00	3,310
1883	4,661	19,794,805 00	7,329,283 00	27,124,088 00	427,033 59	15 40	468,120 00	3,381

TABLE

Showing Amount paid for Support of Poor out of Almshouse
from 1851 to 1883 inclusive.

1851 . . .	\$138 56	1868 . . .	\$1,464 53
1852 . . .	104 94	1869 . . .	2,019 28
1853 . . .	45 70	1870 . . .	2,197 41
1854 . . .	38 10	1871 . . .	3,713 39
1855 . . .	73 63	1872 . . .	2,884 79
1856 . . .	135 49	1873 . . .	3,066 59
1857 . . .	204 96	1874 . . .	3,895 51
1858 . . .	387 61	1875 . . .	5,553 79
1859 . . .	358 25	1876 . . .	9,336 14
1860 . . .	500 81	1877 . . .	10,259 57
1861 . . .	757 14	1878 . . .	8,284 10
1862 . . .	781 50	1879 . . .	8,246 42
1863 . . .	632 27	1880 . . .	6,455 80
1864 . . .	605 02	1881 . . .	6,808 75
1865 . . .	870 77	1882 . . .	7,933 57
1866 . . .	643 72	1883 . . .	8,016 14
1867 . . .	1,268 08		

SALARIES OF CITY OFFICERS, 1884.

Mayor	\$1,000 00
City clerk	2,000 00
City treasurer and collector	2,700 00
Assistant treasurer and deputy collector	1,100 00
City auditor	2,000 00
City solicitor	1,000 00
Chairman of assessors	1,200 00
Two assessors, each	750 00
Assistant assessors, each per day	4 00
City messenger	1,100 00
Clerk of Common Council	200 00
Sealer of weights and measures	75 00

HIGHWAY DEPARTMENT.

Superintendent of streets, two horses and carriage furnished	\$1,500 00
City engineer	2,000 00

FIRE DEPARTMENT.

Chief of department, team furnished	\$1,400 00
Assistant chief	300 00
Superintendent of Fire Alarm Telegraph	1,000 00
Three engineers of steamers, each	950 00
Four drivers of steamers, and Hook and Ladder Co., each	750 00
One driver of hose-carriage No. 4	500 00
Eight foremen of steamers, and Hook and Ladder, and Hose Co., each	90 00
Eight assistant foremen, and clerks of steamers, and Hook and Ladder, and Hose Co., each	75 00
Fifty-eight hosemen and laddermen, each	70 00

POLICE DEPARTMENT.

City marshal, team furnished	\$1,500 00
Sergeant of police	1,000 00
Twelve policemen, each	900 00
One policeman	825 00
One policeman	750 00
First year of service	750 00
Second year of service	825 00
Third and subsequent years	900 00

POOR DEPARTMENT.

Seven overseers of poor, each	\$50 00
City almoner and clerk of board	700 00
Warden of almshouse	600 00

WATER DEPARTMENT.

Water registrar	\$1,800 00
Superintendent of water-works, team furnished,	1,500 00
Inspector of meters and fixtures	1,050 00
Engineer at pumping station, with house-rent .	1,200 00
Fireman and watchman, pumping station, with house-rent	600 00

SCHOOLS.

Superintendent	\$2,700 00
One teacher	2,800 00
Four teachers at \$1,900	7,600 00
One teacher	2,000 00
Three teachers at \$1,800	5,400 00
Three teachers at \$1,500	4,500 00
One teacher	800 00
Three teachers at \$1,000	3,000 00
One teacher	950 00
One teacher	900 00
Twelve teachers at \$750	9,000 00
Forty teachers at \$600	24,000 00
One teacher	550 00
Five teachers at \$500	2,500 00
One teacher	400 00
Two teachers at \$300	600 00
One teacher	200 00
Secretary of School Committee	300 00

Janitors.

One janitor	.	.	.	.	.	.	\$650 00
One janitor	.	.	.	.	.	.	626 00
One janitor	.	.	.	.	.	.	540 00
One janitor	.	.	.	.	.	.	425 00
One janitor	.	.	.	.	.	.	400 00
One janitor	.	.	.	.	.	.	300 00
One janitor	.	.	.	.	.	.	275 00
Two janitors at \$240	.	.	.	.	.	.	480 00
One janitor	.	.	.	.	.	.	216 00
One janitor	.	.	.	.	.	.	120 00
Two janitors at \$96	.	.	.	.	.	.	192 00

LIBRARY.

Librarian	.	.	.	.	.	.	\$1,000 00
Assistant librarian	.	.	.	.	.	.	600 00
Three assistants, each \$400	.	.	.	.	.	.	1,200 00
Janitor	.	.	.	.	.	.	1,000 00

STATISTICS COMPILED BY THE CITY CLERK FROM THE RECORDS OF HIS OFFICE.

BIRTHS REGISTERED, 1883.

WARDS.	1		2		3		4		5		6		7		TOTAL.		AGGREGATE.
	MALE.	FEMALE.	MALE.	FEMALE.	MALE.	FEMALE.	MALE.	FEMALE.	MALE.	FEMALE.	MALE.	FEMALE.	MALE.	FEMALE.	MALE.	FEMALE.	
January	1	4	2	2	3	2	1	3	2	-	3	4	-	15	12	27	
February	4	3	3	1	1	1	1	1	2	3	2	3	-	11	11	22	
March	5	3	2	7	6	1	6	3	1	3	4	2	2	24	21	45	
April	-	1	8	1	1	1	1	3	3	-	4	-	1	13	15	28	
May	5	-	2	-	2	1	4	2	2	2	1	-	1	9	15	24	
June	4	-	1	3	3	3	-	2	2	1	2	1	2	12	13	25	
July	4	3	4	2	4	4	2	5	4	1	1	1	2	9	24	33	
August	7	2	6	4	5	2	5	6	-	5	2	10	1	29	24	53	
September	5	3	1	2	2	-	3	3	4	3	2	3	1	18	24	32	
October	4	-	5	2	2	3	5	5	1	1	1	1	1	20	15	35	
November	5	5	6	4	3	5	3	3	3	1	-	-	2	22	19	41	
December	2	2	4	4	1	6	3	1	2	2	1	3	3	17	21	38	
Total	46	26	44	32	29	29	32	33	23	25	23	28	18	215	188	403	
		72		76	58	58	65	65	48	48	51	51	33			403*	

* There were births of twins in nine cases.

Birthplace of Parents of above.

	FATHERS.	MOTHERS.
America	202	181
Belgium	—	1
Burmah	—	1
Canada	48	60
England	20	20
France	1	—
Germany	7	6
India	—	1
Ireland	119	129
Russia	1	—
Scotland	3	2
Sweden	—	2
Switzerland	2	—
Totals	403	403
American	202	181
Foreign	201	222

MARRIAGES, 1883.

January	11	August	17
February	8	September	15
March	7	October	20
April	27	November	23
May	18	December	8
June	23		
July	14	Total	191

Birthplace of above Contracting Parties.

	GROOM.	BRIDE.
America	118	108
Azores Islands	1	1
Canada	19	30
England	9	8
France	3	1
Germany	1	—
Ireland	34	41
Scotland	4	—
Sweden	2	2
Totals	191	191
American	118	108
Foreign	73	83

DEATHS, 1883.

Statement showing Causes of Death in each Month.

	JANUARY.	FEBRUARY.	MARCH.	APRIL.	MAY.	JUNE.	JULY.	AUGUST.	SEPTEMBER.	OCTOBER.	NOVEMBER.	DECEMBER.	TOTAL.
Anæmia	1	-	-	3	-	-	1	2	-	2	-	2	11
Angina pectoris . . .	-	-	-	-	-	-	-	-	-	-	-	1	1
Apoplexy	2	-	-	-	-	1	-	-	2	1	-	2	8
Bowels, abscess of . .	-	-	1	-	-	-	-	-	-	-	-	-	1
Bowels, congenital oc- clusion	-	1	-	-	-	-	-	-	-	-	-	-	1
Bowels, consumption of,	-	-	-	-	-	-	-	-	-	-	1	-	1
Bowels, obstruction of .	-	-	-	1	-	-	-	-	-	-	-	-	1
Brain-disease	-	-	-	-	-	-	1	-	-	-	-	-	1
Bright's disease . . .	-	-	-	-	3	2	1	-	1	1	1	-	9
Bronchitis	-	1	2	1	2	-	-	-	-	-	-	1	7
Burns	-	-	-	-	-	-	-	1	-	-	-	-	1
Cancer	-	-	-	1	1	-	3	-	-	-	1	1	7
Cerebral congestion . .	-	-	-	-	-	-	-	1	-	-	-	-	1
Cholera-infantum . . .	-	-	-	-	-	-	2	8	1	-	-	-	11
Cholera-morbus	-	-	-	-	-	-	-	-	1	-	-	-	1
Collapse	-	-	-	-	-	-	-	-	-	1	-	-	1
Convulsions	-	-	-	1	-	1	-	1	-	1	-	-	4
Croup, membranous . .	1	-	-	-	-	-	-	-	-	-	-	-	1
Cystitis, acute	-	-	-	-	-	-	-	-	-	-	-	1	1
Diarrhœa, infantile . .	-	-	-	-	-	-	-	-	-	-	-	-	-
Diphtheria	-	-	-	2	2	-	-	1	2	2	1	-	10
Dropsy	-	-	2	-	1	2	-	-	1	-	-	-	6
Dysentery, acute . . .	-	-	-	-	-	-	-	-	2	-	-	-	2
Dyspepsia	-	-	1	-	-	-	-	-	-	-	1	-	2
Enterocolitis	1	-	-	-	-	-	-	-	-	-	-	-	1
Erysipelas	-	-	1	-	1	-	1	-	-	-	-	-	3
Fever, typhoid	-	1	1	-	-	-	-	-	-	-	1	-	3
Fibroid, uterine	1	-	-	-	-	-	-	-	-	-	-	-	1
Gastritis	-	-	-	1	-	-	-	1	-	-	1	-	3
Gastro-enteritis	1	-	-	-	-	-	-	-	-	-	-	-	1
Goitre	-	-	-	-	-	-	-	-	-	-	-	1	1
Gunshot wound	-	-	-	-	-	-	-	-	-	-	1	-	1
Heart-disease	-	2	1	-	2	1	-	2	-	1	1	-	10
Hæmorrhage (accident),	-	-	-	-	-	-	-	-	-	1	-	-	1
Hepatitis	1	-	-	-	-	-	-	-	-	-	-	-	1
Hernia	-	-	-	-	-	1	-	-	-	-	-	-	1
Insanity	-	-	-	-	-	-	-	1	-	1	-	-	2
Liver, disease of	-	1	-	-	1	-	1	1	-	1	-	-	5
Locomotor, ataxia . . .	-	-	-	-	-	-	-	-	-	1	-	-	1
Leucocythæmia, splenic,	-	-	-	-	-	-	-	1	-	-	-	-	1
Lungs, hæmorrhage of .	-	-	-	-	-	-	-	-	-	-	1	-	1
Malaria asthenia . . .	-	-	-	-	-	-	1	-	-	-	-	-	1

DEATHS, 1883.

Statement showing Causes of Death in each Month (*concluded*).

	JANUARY.	FEBRUARY.	MARCH.	APRIL.	MAY.	JUNE.	JULY.	AUGUST.	SEPTEMBER.	OCTOBER.	NOVEMBER.	DECEMBER.	TOTAL.
Measles	-	-	-	-	-	1	-	-	-	-	-	-	1
Meningitis	-	-	2	-	-	-	-	1	2	-	-	1	6
Nephritis, chronic	-	-	-	2	-	-	-	-	-	-	-	-	2
Old age	2	-	1	-	3	1	-	1	3	2	-	2	15
Paralysis	1	-	-	-	-	1	-	-	-	-	1	-	3
Peritonitis	1	-	-	-	-	-	-	1	-	-	1	-	3
Phthisis (consumption),	6	3	1	3	2	3	-	3	2	6	3	3	35
Pistol-shot	-	-	-	-	-	-	-	-	-	1	-	-	1
Pleurisy	-	-	-	-	-	-	-	-	-	1	-	-	1
Pneumonia	3	-	4	2	2	1	1	1	-	1	2	1	18
Pneumonitis	-	-	-	-	-	-	-	-	-	1	-	-	1
Premature birth	-	-	-	1	-	-	-	-	1	-	-	-	2
Railroad violence	-	-	-	-	-	-	-	-	-	-	-	1	1
Rheumatism, chronic	-	-	-	-	-	1	-	-	-	-	-	-	1
Rupture	-	-	1	-	-	-	-	-	-	-	-	-	1
Scarlatina	-	1	-	-	-	-	-	-	-	-	-	1	2
Scrofula	-	-	-	-	-	-	1	-	-	-	-	-	1
Septicæmia	-	-	-	-	-	-	-	-	-	-	1	-	1
Stillborn	-	1	5	-	2	-	4	1	2	-	2	3	20
Stomach, carcinoma of,	-	-	-	-	-	1	-	-	-	-	-	-	1
Stomach, ulceration of,	-	-	-	-	-	-	-	1	-	-	-	-	1
Sunstroke	-	-	-	-	-	-	1	-	-	-	-	-	1
Typhlitis	-	-	-	-	-	-	-	1	-	-	-	-	1
Umbilicus, hemorrhage of	-	-	1	-	-	-	-	-	-	-	-	-	1
Unknown (probable ex- posure)	-	-	-	-	-	-	-	-	-	-	1	-	1
Number of deaths in each month	21	11	24	18	22	17	19	30	22	25	21	21	251

Statement of Deaths by Months in each Ward.

	1		2		3		4		5		6		7		TOTAL.		AGGREGATE.
	MALE.	FEMALE.	MALE.	FEMALE.	MALE.	FEMALE.	MALE.	FEMALE.	MALE.	FEMALE.	MALE.	FEMALE.	MALE.	FEMALE.	MALE.	FEMALE.	
January	1	-	3	2	2	3	-	2	-	2	1	2	3	-	7	14	21
February	-	3	2	-	1	2	-	1	-	-	2	-	1	-	6	5	11
March	2	3	1	3	2	2	4	1	-	-	1	3	2	1	12	12	24
April	1	1	1	1	1	2	1	2	-	-	1	1	1	1	8	10	18
May	1	1	3	3	2	2	2	2	-	-	2	2	1	-	10	12	22
June	-	1	-	3	-	2	3	2	1	1	2	2	1	-	6	11	17
July	3	1	3	3	1	3	1	2	3	1	1	2	1	-	11	8	19
August	5	1	-	3	-	2	3	2	1	-	2	1	-	-	13	17	30
September	2	1	1	7	2	3	2	2	1	4	1	2	-	-	14	8	22
October	1	2	2	1	3	2	3	1	3	1	1	2	3	-	15	10	25
November	2	-	3	1	2	3	3	2	2	1	2	1	1	-	13	8	21
December	-	-	2	3	4	2	2	1	1	3	3	1	1	-	10	11	21
Totals	20	16	20	27	19	22	25	20	11	21	19	14	11	6	125	126	251
Aggregate		36	47		41		45		32		33		17				251

Birthplace of Parents of above Deceased Persons.

	FATHERS.	MOTHERS.
America	127	134
Austria	1	—
Belgium	—	1
Canada	11	13
England	14	13
France	2	1
Germany	8	6
Ireland	72	65
Scotland	5	4
Unknown	11	14
Totals	251	251
American	127	134
Foreign	113	103
Unknown	11	14
	251	251

FEES.

Recording Fees collected and paid monthly to City Treasurer,
April 1 to Dec. 31.

Assignment of wages	\$21 45	
Licenses, Auctioneer, Bills of sale, Col- lecting barrels, and Intelligence-office	10 50	
Licenses: Junk-dealers	16 00	
Marriage	70 50	
Mortgages: Personal property	60 00	
		\$178 45
Collected for dogs licensed April 1 to Dec. 1:—		
Males, 710, at \$2.00	\$1,420 00	
Females, 64, at \$5.00	320 00	
		1,740 00
Dec. 1. Paid city treasurer, —		
Retained fees, 774 licenses, at \$0.20	\$154 80	
Dec. 1. Paid county treasurer	1,585 20	
		1,740 00

Dogs are distributed in the Various Wards as follows:—

	1	2	3	4	5	6	7
Males	88	134	94	102	87	152	53
Females	12	11	13	3	12	6	7
Totals	90	145	107	105	99	158	60

REPORT
OF
THE OVERSEERS OF THE POOR.

REPORT OF THE OVERSEERS OF THE POOR.

To the City Council of the City of Newton the Board of Overseers of the Poor respectfully submits its Annual Report.

The regular work of the Board has been performed, with no marked changes to be noticed, during the year.

There has been a general supply of work, and no prevailing sickness. With these two conditions, the number of those asking aid is kept within reduced limits. It can hardly be expected that in average years it can be kept at so low a figure. The net cost of poor out of almshouse is a trifle less than in 1882.

Of the class aided, there are, first, those who call occasionally, and mostly in the winter, when their wants are greatest, and income from labor least.

Second, those who receive continuous aid through the entire year. To these are added each year new cases, of those who have become dependent by the increasing feebleness of age or by disease.

Other things being equal, the expenses of the department may be expected to increase with the increase of population in the city. The increase in number of well-to-do citizens creates a demand for more laborers, whose wants often keep pace with their means; and thus, when sickness, accident, or other misfortune comes upon them, they are immediately destitute, and obliged to call for aid.

The complaint appears more general the past year, that families are landed on our shores from abroad, who from total lack of means, on the slightest unfavorable turn of affairs are in distress, and must be cared for at public expense. Many of these appear to be worthy, and to have come with a

laudable desire to improve the condition of themselves and their children.

When the reasons for our pauper expense are sought, we find that the use of intoxicating drink is the direct or indirect cause of a large proportion of the pauperism in our city. If this evil were abolished, the larger part of pauperism would disappear.

The problem what to do with families, consisting of mother and several children, receiving continuous partial support, is not solved, neither is there unanimity of opinion upon it. When the children in these families are well cared for, and are under those influences that produce good citizenship, it seems just to aid them at their homes, and thus preserve the natural family ties. In other cases, these families are destitute of all the elements of a good home, lack control, and the children are likely to develop into paupers and criminals. Children from such families could, with profit to themselves and the community, be placed in adopted homes, or in a city children's home.

Whole number of persons receiving partial support out of almshouse during the year	346
Having legal settlement in Newton	219
Having settlement in other cities and towns	56
Having no settlement	71

Persons wholly supported out of almshouse during any part of the year are as follows:—

State Reform School	1
State Work-house	1
Northampton Lunatic-Hospital	1
Asylum for the Chronic Insane, Worcester	2
Worcester Lunatic-Hospital	12
Remaining at present in insane-hospitals	8
In State Reform School	1

Of the twelve who have been in Worcester Lunatic-Hospital, five have been returned to their friends, two have died, and five remain.

The whole amount appropriated by the City Council for this department, for the year 1883, was as follows:—

Poor out of almshouse	\$7,500 00
Almshouse expenses and repairs	3,800 00
	<hr/>
Total appropriation	\$11,300 00

The whole amount expended for poor out of almshouse for the year is as follows:—

Cash payments	\$548 88
Groceries	1,754 23
Fuel	998 55
Clothing	5 50
Board	337 39
Medical attendance	254 30
Medicine	87 00
Burials	155 50
Feeding tramps and travellers	51 50
Support of insane	2,155 11
Paid other cities and towns	415 90
Commonwealth of Massachusetts	202 18
Salary of clerk and almoner	700 00
Salaries of overseers	350 00
	<hr/>
Total expenditures	\$8,016 14
Receipts from the State, other cities and towns, and friends of the relieved	1,468 96
	<hr/>
Net cost of poor out of almshouse	\$6,547 18

The almshouse, since its reconstruction, has proved well adapted to the wants of the inmates, and convenient for the work of the establishment. The warden expresses the opinion that there has not a better, for the purpose, come under his observation, though there are more extensive ones. The ease, safety, and economy with which the whole house is kept comfortable through the winter by the steam-

heating apparatus is continued proof that the change from furnaces was a desirable one.

During the year the bath-room and two water-closets have been completed, and are great conveniences to the warden's family and the inmates.

Religious services have been continued during the summer in the large dining-room, which gives desirable accommodations for the purpose. These services have been attended by the inmates, and also by citizens from outside.

Some of the younger inmates, who were useful and helpful, have left during the year, and several aged and infirm persons have been added to the number of dependents, whereby the labor and expense of maintaining the house have been considerably increased.

Seven of the inmates have died during the year. Three of these were sick, and near their end, when received.

For lack of other hospital accommodations within reach, the department is liable at all times to receive at the almshouse cases of sickness having no claim there. Persons having no settlement, who must be provided for somewhere outside their boarding-places, are thrown upon us. With our present accommodations, this can be done, to a limited extent, at the almshouse, though the bills for medical attendance and nursing will make an important increase in almshouse expense.

The matron has the fullest confidence and co-operation of the Board, and also of the inmates, in the management of the internal affairs of the house. Efficiency and kindness, both so important in this connection, are apparent in the results gained. The large proportion of aged and sick has made the year one of more than ordinary labor, care, and expense.

The conveniences for the insane are so limited at the almshouse, that only the most comfortable and quiet can be received. To take such as would, with present accommodations, disturb the quiet of the family, composed mostly of the aged and feeble, a separate ward is necessary. This arrangement is being made by many cities and towns.

The farm, stock, and general outside business of the almshouse department have been managed by the warden with efficiency, and to the satisfaction of the Board.

By the extension of a shed, at a cost of \$167, protection from wind is secured to the barnyard, with enlarged accommodations for stock, and for storage in the corn-room above.

The purpose of the City Council, to donate to the Boston and Albany Railroad a roadway across both sections of the farm, will, if carried into effect, be a great injury to the property for the purposes of a farm, and will doubtless necessitate in the future a removal, and rebuilding in some other locality. The enhanced value of the property for other uses may compensate the city for the trouble and expense to which it will be subjected.

Whole number cared for at almshouse, all or part of the year	49
Present number	30
Average number for the year	32
Died during the year	7
Of present number over 70 years of age	11
Of present number over 80 years of age	8
Of present number over 90 years of age	4

Bills for permanent equipment of almshouse, part of which were contracted in 1882, have been paid during the year, as follows : —

Bath-room and water-closets	\$259 48
Fire-hose	143 00
Stove in kitchen	74 00
Extension of shed	167 00
Exchange of horse	176 00

Whole amount appropriated for almshouse expenses and repairs	\$3,800 00
Whole amount expended	4,753 00

Amount received from sales of produce, wood, board, etc.	\$1,340 00
Net cost of almshouse expenses and repairs . . .	3,413 48
Net cost of poor out of almshouse . . .	6,547 18
Total cost of poor department for 1883, net . . .	9,961 02
Total appropriation	11,300 00

For the Overseers of the Poor.

NATHAN MOSMAN, *Clerk.*

HEALTH OFFICER'S REPORT.

REPORT OF HEALTH OFFICER.

CITY HALL, WEST NEWTON, Feb. 1, 1884.

To the Board of Health.

GENTLEMEN,—The details of the work performed in applying and enforcing the rules of the Board have not varied materially from those of previous years.

No special occurrence worthy of note has transpired. There have been scattered cases of diphtheria and scarlet-fever through the year, but not general, or epidemic in character.

Dwellings and premises have been visited, whenever attention has been called to them by reports from physicians, or otherwise.

It is possible, that, in some cases, physicians have neglected to report to the Board cases of disease dangerous to the public health.

In some sections of the city a visit generally shows the necessity for work being performed to secure good sanitary conditions in and about dwellings, and safety to the occupants.

The usual amount of attention has been required in houses where the plumbing was unsafe, from imperfect plans, material, or workmanship. When such a system of plumbing, connecting with a cesspool, ends in the centre of a house, there must be danger to the occupants from the slow escape of poisonous gas.

There are many good dwellings, with complete amount of plumbing, that are not safe or comfortable; while others, with the simple privy vault properly cared for, have all the elements of comfort and safety.

The carefully prepared Rules of the Board will be of special value to citizens in giving information concerning the

safety and healthfulness of the dwellings they build and occupy, and in correcting errors in plumbing and drainage. In many cases, by their help dangerous elements may be discovered and corrected in dwellings which had been supposed properly constructed and safe. They could with profit be placed in every occupied house in the city.

REPORTED CASES OF DISEASES DANGEROUS TO PUBLIC
HEALTH.

Diphtheria	25
Scarlet-fever	36
Typhoid-fever	8
Defective plumbing and broken drains	67
Private nuisances complained of, and abated by those complained of	48
Well closed	1

Other wells have been given up voluntarily, while many unsafe ones are still used for domestic water-supply.

Miscellaneous complaints not enumerated are of soap-works, stables, barn-cellars, sewage left on land uncovered, pig-pens, filthy yards, etc.

The collection of house-offal under contract has been made, to the general satisfaction of citizens. The exceptional cases might be sooner remedied if sooner reported. Private collections, to some extent, are made morning and evening, contrary to the rules of the Board. Due care not to encounter the police is necessary in order to make this a profitable industry; but in many cases it appears to be so.

The keeping of swine in villages not only is a nuisance in neighborhoods, but also, by encouraging private collections, interferes with the rights of the contracting collector of house-offal.

The cleansing of cesspools and vaults has been performed by eleven licensed persons. These have used the box apparatus, with one exception, wherein the odorless excavator has been used. The proprietor of this apparatus has the sole right for its use in the city. There are other good and effec-

tive kinds of apparatus that could be applied to this work. One or more additional odorless excavators located at different points in the city would better accommodate citizens, and facilitate the prompt execution of orders, while also giving opportunity for choice. Many advantages are gained in using the odorless excavator, as the work can be performed by day.

The collection and disposal of ashes by the highway department has served an important end in filling low and unhealthy lands about the city, and thus removing causes of discomfort, and danger to health.

The small-pox hospital has, fortunately, not been occupied the past year. It has been painted outside and in, both for preservation and comfort, and is in neat and good order.

The comparative healthfulness of Newton as a place of residence has become an established fact. The census of 1880, in giving the mortality rate of the eighteen incorporated cities of Massachusetts, showed that of Newton to be the lowest, it being 15.8 to the thousand persons, the rate rising in the other cities to 26.3, the highest.

The public statistics of the State for 1882 give even better figures, Newton being 14.8, the lowest; the highest being 27.4.

These facts, though gratifying to dwellers in Newton, should not lead to relaxation in effort for better things, as the causes of danger to public health are not yet all removed.

Respectfully submitted.

NATHAN MOSMAN, *Health Officer*.

CITY MARSHAL'S REPORT.

REPORT OF CITY MARSHAL.

CITY MARSHAL'S OFFICE, NEWTON,
Jan. 1, 1884.

To the Honorable Mayor and City Council.

A REPORT of the doings of the police department of Newton, for the year ending Dec. 31, 1883, is herewith submitted.

The force is composed of a city marshal, one sergeant, and fourteen patrolmen. The patrolmen are stationed as follows:—

At Newton	.	.	.	.	.	.	.	.	.	.	3
At Newtonville	.	.	.	.	.	.	.	.	.	.	1
At Nonantum	.	.	.	.	.	.	.	.	.	.	1
At West Newton	.	.	.	.	.	.	.	.	.	.	2
At Auburndale	.	.	.	.	.	.	.	.	.	.	1
At Newton Centre	.	.	.	.	.	.	.	.	.	.	2
At Newton Highlands	.	.	.	.	.	.	.	.	.	.	1
At Newton Lower Falls	.	.	.	.	.	.	.	.	.	.	1
At Newton Upper Falls	.	.	.	.	.	.	.	.	.	.	1
Mounted to patrol the whole city	.	.	.	.	.	.	.	.	.	.	1
Total	.	.	.	.	.	.	.	.	.	.	14

NATIVITY OF THE MEMBERS.

Massachusetts	.	.	.	.	.	.	.	.	.	8
New Hampshire	.	.	.	.	.	.	.	.	.	3
Maine	.	.	.	.	.	.	.	.	.	2
Vermont	.	.	.	.	.	.	.	.	.	1
Nova Scotia	.	.	.	.	.	.	.	.	.	1
Ireland	.	.	.	.	.	.	.	.	.	1

For night-patrol duty there are eleven routes or beats, bounded thus:—

No. 1, beginning at Centre Street, at Watertown line, thence by Centre, Sargent, and Kenrick Streets, to Boston line, thence by Boston line, Charles River, and Watertown line, to the point of beginning.

No. 2, beginning at Boyd's Pond, at Watertown line, thence, by said pond and Cold Spring Brook, to Pearl Street, thence by Pearl, Green, Chapel, Middle, Adams, and Washington Streets, Cold Spring Brook, Cabot and Centre Streets, to Watertown line, thence, by Watertown line, to the point of beginning.

No. 3, beginning at Boyd's Pond, at Watertown line, thence, by Boyd's Pond and Cold Spring Brook, to Pearl Street, thence by Pearl, Green, Chapel, Middle, Adams, Washington, Crafts, and North Streets, to Waltham line, thence by Waltham line, Charles River, and Watertown line, to the point of beginning.

No. 4, beginning at Cold Spring Brook, at Washington Street, thence, by said brook, to Cabot Street, thence by Cabot, Blake, Mill, Walnut, Homer, Valentine, and Highland Streets, Forest Avenue, Mount Vernon Street, Washington, Cross, and Watertown Streets, to Cheesecake Brook, thence by said brook, Crafts and Washington Streets, to the point of beginning.

No. 5, beginning at Waltham line, at North Street, thence by North and Crafts Streets, Cheesecake Brook, Watertown, Cross, and Washington Streets, Greenwood Avenue, Mount Vernon Street, Forest Avenue, Highland, Valentine, Homer, Fuller, Washington, Greenough, Auburn, Crescent, and Webster Streets, a private way, Auburndale Avenue, Dartmouth Street, Pine, River, and Lexington Streets, to Waltham line, thence to the point of beginning.

No. 6, beginning at Waltham line, at Lexington Street, thence by Lexington, River, Pine, and Dartmouth Streets, Auburndale Avenue, a private way, Webster, Crescent, Auburn, Greenough, and Washington Streets, to the Gasometer,

thence across the vacant land, and across Grove Street, to Charles River, thence, by said river and Waltham line, to the point of beginning.

No. 7, beginning at Charles River, at the boundary line between Wards Nos. 4 and 5, thence, by said boundary line, to Beacon Street, thence by Beacon, Chestnut, Fuller, and Washington Streets, to the Gasometer, thence across the vacant land, and across Grove Street, to Charles River, thence, by said river, to the point of beginning.

No. 8, beginning at Charles River, at the boundary line between Wards Nos. 4 and 5, thence, by said boundary line, to Beacon Street, thence by Beacon, Chestnut, Woodward, Boylston, Cook, Winchester, and Nahanton Streets, to Charles River, thence, by Charles River, to the point of beginning.

No. 9, beginning at Charles River, at Nahanton Street, thence by Nahanton, Winchester, Cook, Boylston, Woodward, Chestnut, Homer, Walnut, Hyde, Centre, Clark, Boylston, Dudley, and Brookline Streets, to Brookline line, thence by said line, Boston line, and Charles River, to the point of beginning.

No. 10, beginning at the corner of Beacon and Walnut Streets, thence by Walnut, Mill, Blake, Cabot, Sargent, and Kenrick Streets, to the Boston line, thence, by Boston line, to Beacon Street, thence, by Beacon Street, to the point of beginning.

No. 11, beginning at Boston line, at Beacon Street, thence, by Boston line and Brookline line, to Brookline Street, thence by Brookline, Dudley, Boylston, Clark, Centre, Hyde, Walnut, and Beacon Streets, to the point of beginning.

The only change made in the department during the past year has been in the retirement of Mr. Revilo L. Hinds as city marshal, and the appointment of the present incumbent, who began duty on the sixth day of September: otherwise the force is the same as it was one year ago.

The following statement shows the work done by the department during the year: —

Number of arrests	408
Number of males	366
Number of females	42
Number of foreigners	232
Number of minors	87
Number held for trial	368
Number released on examination	40

NATIVITY OF PRISONERS.

United States	174
Ireland	177
England	22
Canada	17
Germany	7
France	5
Scotland	5
Spain	1
	<hr/>
	408

Offences for which arrests were made : —

Assault	1
Assault and battery	36
Assault, felonious	2
Assault on an officer	2
Adultery	1
Attempt to commit larceny	4
Breaking and entering	1
Contempt of court	4
Cruelty to animals	9
Disorderly	5
Disturbing a public school	1
Disturbing the peace	42
Drunkenness	135
Embezzlement	3
Escaped convicts	2
Evading fare	2

Fraud	1
Insane	12
Larceny, simple	28
Larceny, felonious	11
Malicious mischief	1
Mingling poison with food	1
Non-support of family	1
Profanity	1
Railers and brawlers	3
Receiving stolen goods	1
Refusing to assist an officer	3
Runaways	2
Selling leased property	1
Stealing a ride	1
Stubborn children	2
Suspicion of larceny	1
Suspicious persons	12
Threatening bodily harm	2
Truancy	3
Vagrancy	4
Violation of city ordinances	20
Violation of dog law	19
Violation of liquor law	28
<hr/>	
Total	408

LODGERS.

	NUMBER.	MALES.	FEMALES.
At station No. 1	336	331	5
At station No. 2	75	75	0
At station No. 3	352	350	2
At station No. 4	148	146	2
Total	911	902	9

NATIVITY OF LODGERS.

United States	.	.	.	.	.	.	.	.	388
Ireland .	.	.	.	.	.	.	.	.	365
England	.	.	.	.	.	.	.	.	72
Scotland	.	.	.	.	.	.	.	.	28
Germany	.	.	.	.	.	.	.	.	23
Canada .	.	.	.	.	.	.	.	.	22
France .	.	.	.	.	.	.	.	.	5
Italy .	.	.	.	.	.	.	.	.	4
Sweden	.	.	.	.	.	.	.	.	2
Norway	.	.	.	.	.	.	.	.	1
Russia .	.	.	.	.	.	.	.	.	1
Total	.	.	.	.	.	.	.	.	911

MISCELLANEOUS BUSINESS.

Amount of property reported stolen in the city	.	\$3,991.00
Amount recovered, lost and stolen in and out of the city .	.	4,221.42
Accidents reported	.	35
Buildings found open, and secured	.	37
Dangerous buildings reported	.	10
Dead bodies found	.	3
Defective gas-lamps reported	.	195
Defective oil-lamps reported	.	302
Defective sidewalks reported	.	23
Defective streets reported	.	25
Defective gas-pipes reported	.	10
Defective water-pipes reported	.	12
Disturbances suppressed	.	58
Dogs killed	.	13
Fire-alarms attended	.	13
Fires extinguished without alarm	.	25
Horses killed	.	11
Injured and sick persons assisted	.	24
Intoxicated persons helped home	.	87

Lost children restored to friends	19
Liquor search-warrants served	34
Lanterns hung out in dangerous places . .	21
Notices served	8,000
Nuisances reported	21
Stray teams put up	29
Street-obstructions removed	36
Truant cases investigated	27
Amount of fines imposed by court	\$1,504.00
Amount of imprisonment	14 years, 7 months
Amount of court-fees earned by officers . .	\$780.32
Amount received from sale of a horse . . .	\$165.20

The amount appropriated for the maintenance of the department was \$17,700, the amount expended, \$17,199.57; deduct the amount received from court-fees and the sale of the horse, and it will be found that the total expenses for police service for the year were \$16,254.05.

During the year special police-officers were employed 248 days, at an expense of \$620.

If the removal of Station No. 1 is contemplated, it is suggested that Stations Nos. 1 and 2 be consolidated, and a station-house be built about midway between the present locations of the two. Station 2 is not used for lodgers on account of its isolation, and being without any one in constant charge.

The strength and efficiency of a police force is not so much in the excessive number of station-houses, as in the number of men judiciously distributed. Take, for instance, the city of Lowell, with its sixty thousand inhabitants and its police force of sixty men, it has only one police-station.

The amount saved in the way I have mentioned could be expended in the increase of the number of men.

CITY PROPERTY IN USE BY THE POLICE DEPARTMENT.

	STATIONS.				MARSHAL'S OFFICE.	TOTAL.
	1	2	3	4		
Bed blankets	7	4	4	8	7	30
Bedsteads, iron	1	—	—	2	—	3
Blank-books	Lot	Lot	Lot	Lot	Lot	Lot
Bookcases	—	—	—	—	1	1
Brooms	1	1	2	1	8	13
Carpeting, yards	—	—	—	—	30	30
Carriages	—	—	—	—	2	2
Carriage-robos	—	—	—	—	3	3
Chairs	3	4	5	5	4	21
City ordinances	1	1	1	1	1	5
Clocks	1	—	1	1	—	3
Coal, tons	—	5	—	—	—	5
Desks	1	—	—	1	2	4
Dictionaries	—	—	—	1	1	2
Feather-dusters	1	1	—	—	1	3
Fire-alarm keys	—	—	—	—	17	17
Handcuffs	—	—	—	—	19	19
Hand-hose, feet	25	50	50	50	—	175
Harnesses	—	—	—	—	2	2
Horse-blankets	—	—	—	—	6	6
Horses	—	—	—	—	2	2
Horseman's leggings	—	—	—	—	1	1
Inkstands	1	1	1	1	2	6
Lanterns	2	1	1	1	2	7
Lounges	—	—	1	—	1	2
Maps	—	—	—	—	1	1
Mats	—	—	2	—	3	5
Mattresses	1	—	—	1	—	2
Mirrors	1	1	1	1	1	5
Mops	—	—	2	—	3	5
Newton directories	1	—	—	1	1	3
Pails	5	2	2	1	6	16
Police-clubs, long	—	—	—	—	16	16
Police-clubs, short	—	—	—	—	6	6
Police-buttons, dozen	—	—	—	—	106	106
Police-badges	—	—	—	—	17	17
Police-belts	—	—	—	—	16	16
Police-regulations	—	—	—	—	150	150
Police-calls	—	—	—	—	15	15
Police-wreaths	—	—	—	—	12	12
Reins	—	—	—	—	1	1
Rope, feet	—	—	—	—	120	120

CITY PROPERTY IN USE BY THE POLICE DEPARTMENT.
(*Concluded.*)

	STATIONS.				MARSHAL'S OFFICE.	TOTAL.
	1	2	3	4		
Saddles and bridles	-	-	-	-	2	2
Saddle-cloths	-	-	-	-	3	3
Settees	-	-	-	1	-	1
Sleighs	-	-	-	-	1	1
Spittoons	1	1	1	2	2	7
Shovels	-	1	-	1	-	2
Surcingles	-	-	-	-	2	2
Tables	1	1	2	-	1	5
Thermometers	-	-	-	-	1	1
Tin cups	3	8	6	2	-	19
Towels	-	-	2	-	3	5
Wash-bowls	-	1	-	-	-	1
Water-wrenches	1	1	1	1	2	6
Whips	-	-	-	-	1	1

The records of the department show that the members have been, during the year, attentive to their duties, and there is every reason to be pleased with the force in its present condition.

Very respectfully,

DANIEL M. HAMMOND, *City Marshal.*

CITY OF NEWTON.

REPORT

OF THE

WATER BOARD

FOR 1883.



BOSTON:

FRANKLIN PRESS: RAND, AVERY, AND COMPANY.

1884.

NEWTON WATER-WORKS.

ORGANIZATION FOR 1884.

WATER BOARD:

EDWARD W. CATE, *President*. COL. FRANCIS J. PARKER.

FRANCIS A. DEWSON.

ALDERMAN NOAH W. FARLEY.

COUNCILMAN ALBERT F. UPTON.

ALBERT S. GLOVER, *Clerk, and Water Registrar*.

H. NELSON HYDE, JUN., *Superintendent*.

ALBERT F. NOYES, *Engineer (City Engineer)*.

REPORT OF WATER BOARD.

To his Honor the Mayor and the City Council of the City of Newton.

THE Water Board begs leave to submit the following Report of the doings of the Water Department for the year ending Dec. 31, 1883.

The Water Board, during the past year, has consisted of Alderman J. Wesley Kimball, Councilman Fred W. Freeman, Col. Francis J. Parker, Messrs. Francis A. Dewson and Edward W. Cate. At its first meeting the Board organized by the election of Mr. Edward W. Cate as President, and Albert S. Glover, Clerk.

The principal work of the department has been routine, a full and detailed account of which will be found in the tables hereto annexed. The Board, upon its assumption of the management of the department, found that the work upon the new foundations at the pumping station, which had been begun in September, 1882, was far from finished. This work was pushed to completion. The large pumping-engine was transferred to the new foundation, and began its work in its new position Feb. 27.

The auxiliary engine was removed to the lower or basement floor, as in this position its drafting power would be somewhat increased. The other alterations and repairs, rendered necessary by the building of the foundations, and changing of the engines, have been completed; and the grounds, which were badly torn up, have been placed in good order. The new foundations have been in use over ten months, with the most satisfactory results, and it is believed that the trouble which existed at the pumping station for so long a time has at last been remedied.

An examination of the filter basin during the earlier part of the year led the Board to the conclusion that the pores of

its sides and bottom had been, to a great extent, filled up by silt, which had collected during the seven years of the existence of the works.

With a view of increasing the supply of water, and of removing any substances which might have a tendency to decrease its purity, the Board asked for an appropriation of \$3,000, to be expended in cleansing the filter basin. The appropriation being received, work was begun June 20, and ended July 10. The exact cost was \$2,783.50.

The Board desires to call the attention of the City Council to the question of securing an additional supply of water.

An examination of the consumption during the last few years shows that it increases in about the same ratio as the increase in new services, which is about seven per cent.

The greatest consumption, of course, comes at the same season of the year as the least supply. Although last summer was exceedingly dry, and almost every city in the Commonwealth was obliged to place restraints upon the use of water, it is a matter of congratulation that the Board was not compelled to restrict the use of water in the least.

During a number of weeks, however, the large engine was kept constantly at work, Sundays excepted.

The average daily consumption during the month of August was 1,042,608 gallons, and the average daily supply drawn from the filter basin was 1,007,042 gallons. The storage loss was 1,037,236 gallons, and reduced the water in the reservoir to within about 3,000,000 gallons of low-water mark. If the consumption should increase seven per cent in 1884, and if the season were dry, the consumption might rise, in the month of August, to 1,115,591 gallons daily. This would cause a storage loss of 3,299,695 gallons, and would bring the water very near to the low-water mark.

During the year the Board instituted a series of experiments, with a view of testing the condition of the works, and also of finding if there were any sources of waste. The results showed the works to be in excellent condition. The experiments, however, tended to show that large quantities of water were used by the owners of hand-hose, and it is thought, that, by a strict enforcement of the ordinance regu-

lating the use of hose, a great saving of water can be effected. In this connection the Board also desires to call the attention of the City Council to the question of high service.

There are a number of districts of the city which are not at all supplied with water by the present system, and still others which are only partially supplied. The table hereto annexed will give the districts, their approximate areas and populations. While there may be no pressing need of a high service, it might be well to consider the question in connection with that of additional supply. If it were thought best to increase the storage capacity of the works, it would probably be best accomplished by placing an additional reservoir upon higher ground.

Complaints have been made, from time to time during the year, of bad taste of the water. These complaints have in all cases been promptly investigated, and the trouble remedied, usually by flushing the mains. Immediately after our most serious complaint, the water was analyzed, with very satisfactory results, by Professor Richards. His report is as follows:—

MASSACHUSETTS INSTITUTE OF TECHNOLOGY,
BOSTON, May 10, 1883.

EDWARD W. CATE, Esq.

My dear Sir,—The samples of water sent by you on May 8 have been carefully tested, and yield the following results:—

	AMMONIA.	ALBUMINOID AMMONIA.	SOLID RESIDUE.			CHLORINE.	NITRATES IN WATER CONCENTRATED TO $\frac{1}{20}$ ITS BULK.
			INORGANIC.	ORGANIC OR VOLATILE.	TOTAL.		
PARTS PER 100,000.							
Reservoir . .	0.0036	0.0044	5.80	1.88	7.68	0.82	Trace.
Filter-basin . .	0.0030	0.0050	4.28	0.92	5.20	0.61	Faint trace.
Water-main . .	0.0010	0.0014	4.40	0.40	4.80	0.60	Faint trace.
GRAINS PER GALLON.							
Reservoir . .	0.0021	0.0026	3.41	1.10	4.52	0.48	Trace.
Filter-basin . .	0.0018	0.0029	2.51	0.54	3.05	0.36	Faint trace.
Water-main . .	0.0006	0.0008	2.58	0.23	2.82	0.35	Faint trace.

The hardness of the reservoir and of the main water was tested,

and in each case it proved to be equal to 1.50 grains of carbonate of calcium to the gallon.

Respectfully yours,
 (Signed) ROBERT H. RICHARDS,
Professor of Mining.

HIGH SERVICE DISTRICTS.

The tracts of land, and the areas of the same, which cannot be reached by our present water-supply, are as follows. The population we can only give very approximately, without an especial enumeration.

DISTRICT.	APPROXIMATE AREA.	ESTIMATED POPULATION.
Waban Hill	22 acres.	20
Chestnut Hill	11 "	10
Institution Hill	22 "	100
Oak Hill	20 "	None at present.
Bald Pate Hill	16 "	" " "
Total	91 acres.	130

Districts to which water is supplied into cisterns, or to the first story only, or where the present supply cannot be depended upon : —

DISTRICT.	APPROXIMATE AREA.	ESTIMATED POPULATION.
Chestnut Hill	45 acres.	30
Beacon Street Hill	23 "	40
Total	68 acres.	70

There may be some districts of Oak Hill — over which we have no levels, and for which no application for water has been made — which would come under this head.

The districts which would be benefited by a high service

system for fire purposes would be, in addition to those already mentioned : —

DISTRICT.	APPROXIMATE AREA.	ESTIMATED POPULA- TION.
Mount Ida	39 acres.	150
Cottage Hill, Upper Falls	50 “	50
Nonantum Hill	14 “	20
Moffat Hill	15 “	None at present.
Brighton Hill	10 “	
West Newton and Newtonville Hill .	380 “	200
Chestnut Hill District	138 “	50
Station Street and Institution Hill .	45 “	40
Total	691 acres.	560

A large part of Oak Hill district, in which no water-pipes have been laid as yet, the population would not probably number over three hundred. We have not sufficient figures to warrant an estimate of the area, probably about eight hundred acres.

HIGH SERVICE DISTRICTS: SUMMARY.

	AREA IN ACRES.	POPULA- TION.
Districts which cannot be supplied from reservoir .	91	130
Districts partially supplied	68	70
Districts to be benefited for fire purposes	691	560
	850	760
In addition to the above might be added Oak Hill, with an estimated area	800	300
Total	1,650	1,060

LENGTH OF SERVICE-PIPES.

The following table gives the length, in feet, of service-pipes to date : —

WHEN LAID.	NUMBER.	LENGTH IN FEET.
To Jan. 1, 1878	1,497	104,065
During 1878	188	15,449
During 1879	232	13,670
During 1880	228	18,039
During 1881	267	14,675
During 1882	169	10,904
During 1883	159	11,709
Total	2,740	188,511

SUPPLY-PIPES.

The following table shows the location, size, and length of supply-pipes laid during 1883:—

LOCATION.	WARD.	LOCATION.	2-IN.	1-IN.	TOTAL.
Phipps Place .	2	From Walnut, east . .	224	—	224
Mill	2	From end of main, east,	—	141	141
Walnut . . .	5	Extended south . . .	140	—	140
		Total	364	141	505

TABLE SHOWING LOCATIONS, SIZES, LENGTHS, ETC., OF MAINS LAID DURING 1883.

STREET.	WARD.	LOCATION.	LENGTH IN FEET OF EACH SIZE.				GATES.	HYDRANTS.	CUBIC YARDS ROCK.
			12-IN.	8-IN.	6-IN.	4-IN.			
Arlington	7	From Penbrooke, east	-	-	663	-	-	1	47.80
Bennington	1	Extended west	-	-	607	-	-	1	-
Bourne	4	From Auburn, west	-	-	323	-	1	-	-
Cedar	6	Extended north	-	-	130	-	-	-	-
Collage	5	From Elliot, north-west	-	9	64	318	1	-	51.11
Crafts	2	From California, west	-	142	-	-	-	-	-
Dalby	1	Extended north	-	-	179	-	-	1	-
Derby	3	From Waltham west	-	-	1,848	-	1	2	-
Elgin	6	Extended east	-	-	460	-	-	1	136.50
Farmont Avenue	1	Extended west	-	-	455	-	-	1	-
Forest	5	From Bowdoin, west	-	-	-	240	-	-	-
Foster	2	From Walnut, west	-	-	-	264	1	-	-
Hammond	6	Extended south	-	-	1,077	332	-	1	-
Hannewell Avenue	7	Extended east	-	-	249	-	-	1	-
Lake Avenue	6	Extended east	-	-	299	-	-	1	-
Maple	4	Extended north	-	-	-	142	-	-	4.50
Mill	2	From Walnut, east	341	-	-	-	1	1	-
Monument Avenue	7	From Waverley Avenue, east	-	-	442	-	1	1	-
Otis	2	From Murray, west	-	-	746	-	1	1	3.75
Peabody	7	From Washington, north	-	-	70	325	1	1	10.78
Pearl	1	From Watertown, south	-	399	-	-	1	1	-
Poor Farm Grounds	4	Extended north	-	-	-	48	-	-	-
Saltonstall Avenue	6	From Hammond, north-east	-	1,889	-	-	1	2	-
Station	4	From Crescen, west	-	-	-	325	-	-	4.17
Summer	6	Extended south-east	-	217	-	-	-	1	14.00
Walnut	5	From High, west	-	-	-	203	-	-	10.83
Walnut	5	Extended north	364	-	-	-	-	-	120.00
Washington Avenue	2	Extended south to Mill	537	-	-	-	-	-	78.90
Winter	4	From Washington, south	-	-	329	-	1	-	-
Winter	5	Extended east	-	-	-	107	-	-	-
Total			1,242	2,656	7,941	2,304	11	17	491.34

MAIN PIPE LAID DURING 1883.

RECAPITULATION.

Length of 12-inch pipe laid	.	.	.	.	1,242 feet
Length of 8-inch pipe laid	.	.	.	.	2,656 feet
Length of 6-inch pipe laid	.	.	.	.	7,941 feet
Length of 4-inch pipe laid	.	.	.	.	2,304 feet
Total	.	.	.	.	<hr/>14,143 feet

MAIN PIPE, OF ALL SIZES, LAID TO DEC. 31, 1883.

WHEN LAID.	LENGTH IN FEET OF DIFFERENT SIZES.							TOTAL.
	24-IN.	20-IN.	16-IN.	12-IN.	8-IN.	6-IN.	4-IN.	
Laid previous to Jan. 1, 1878	761	18,012	2,457	58,932	53,321	116,815	23,235	273,533
Laid in 1878	—	—	—	—	180	8,391	2,085	10,656
Laid in 1879	—	—	—	1,083	947	13,148	3,122	18,300
Laid in 1880	—	—	—	754	1,484	9,728	4,053	16,019
Laid in 1881	—	—	—	—	484	7,449	2,483	10,416
Laid in 1882	—	—	—	—	1,211	10,416	2,605	14,232
Laid in 1883	—	—	—	1,242	2,656	7,941	2,304	14,143
Total	761	18,012	2,457	62,011	60,283	173,888	39,887	357,299

Total length mains laid to date, 357,299 feet, or 67.60 miles.

SERVICE-PIPES LAID DURING 1883.

MONTH.	SIZE OF PIPES.												TOTAL.	
	2 INCH.		1½ INCH.		1¼ INCH.		1 INCH.		¾ INCH.		½ INCH.			
	No.	LENGTH IN FEET.	No.	LENGTH IN FEET.	No.	LENGTH IN FEET.	No.	LENGTH IN FEET.	No.	LENGTH IN FEET.	No.	LENGTH IN FEET.		
January . . .	-	-	-	-	-	-	-	-	-	-	-	-	1	34.70
February . . .	-	-	-	-	-	-	-	-	-	-	-	-	1	13.20
March . . .	-	-	-	-	-	-	2	26.10	-	-	-	-	5	156.60
April . . .	1	43.95	-	-	-	-	4	153.20	11	475.30	1	47 00	17	719.45
May . . .	-	-	-	-	-	-	3	869.50	14	818.60	-	-	17	1,688.10
June . . .	-	-	-	-	-	-	5	527.80	15	733.20	-	-	20	1,266.70
July . . .	-	-	-	-	-	5.70	1	128.70	11	633.45	-	-	12	762.15
August . . .	-	-	-	-	-	-	3	430.40	7	366.55	-	-	10	796.95
September . . .	2	273.30	-	-	-	-	3	459.70	10	686.80	-	-	15	1,419.80
October . . .	-	-	-	-	-	-	2	250.10	18	948.40	-	-	20	1,198.50
November . . .	-	-	1	719.70	1	562.60	3	499.05	17	836.95	-	-	22	2,618.30
December . . .	-	-	-	-	-	-	7	532.60	12	501.75	-	-	19	1,034.35
Total . . .	3	317.25	1	719.70	1	568.30	33	3,877.15	120	6,179.40	1	47 00	159	11,708.80

STATEMENT OF SERVICES IN USE DEC. 31, 1883.

Number of services laid throughout the city Dec. 31, 1883	2,740
Number of services shut off for non-payment, remaining off Dec. 31, 1882	11
Number of these services turned on during the past year	5
Leaving of these still shut off	— 6
Number of services shut off for non-payment during the past year	1
Number of these turned on again during the past year	1
Leaving of these still shut off	— 0
Number of services turned off by request, remaining off Dec. 31, 1882	93
Number of these turned on during the past year	40
Leaving of these still shut off	— 53
Number of services turned off by request during the past year	93
Number of these turned on again during the past year	63
Leaving of these still shut off	— 30
Number of services once turned on, remain- ing off Dec. 31, 1883	— 89
Number of services never turned on	107
Total number of services remaining off Dec. 31, 1883	— 196
Leaving number of services in use Dec. 31, 1883	<hr/> 2,544

METERS.

There have been set during the past year 97 meters, of which 90 are half-inch Crown, 2 are inch Crown, 1 is a three-inch Crown, 2 are five-eighths inch Worthington, 1, a five-eighths inch Desper, and 1, a two-inch Union Rotary.

The following table gives the classification of meters now in use :—

CLASSIFICATION OF METERS.

DESCRIPTION.	SIZE.							TOTAL.
	$\frac{1}{2}$ -IN.	$\frac{3}{8}$ -IN.	$\frac{3}{4}$ -IN.	1-IN.	$1\frac{1}{2}$ -IN.	2-IN.	3-IN.	
Worthington .	—	302	6	3	—	—	1	312
Union Piston,	—	203	19	1	—	—	—	223
Union Rotary,	—	44	3	4	—	1	—	52
Crown . . .	159	—	—	7	1	—	1	168
Spooner . .	—	—	2	—	—	—	—	2
Desper . . .	—	3	—	—	—	—	—	3
Boston . . .	—	—	1	—	—	—	—	1
Total . .	159	552	31	15	1	1	2	761

WATER PUMPED AND CONSUMED.

During 1883 there were pumped 229,317,924 gallons of water, about 13,000,000 more than were pumped in 1882. The average daily consumption during the past year was 624,381 gallons.

The following table gives the average daily consumption by months during the past six years:—

MONTH.	1878.	1879.	1880.	1881.	1882.	1883.
January . .	286,234	309,645	386,524	406,212	445,257	526,943
February . .	274,792	300,275	341,920	397,346	470,841	481,437
March . . .	227,484	300,048	325,996	354,168	541,149	503,804
April . . .	221,508	297,850	381,002	392,617	477,540	494,281
May . . .	294,278	388,671	514,382	466,234	510,951	568,500
June . . .	369,844	455,924	719,348	475,573	646,752	719,838
July . . .	557,446	488,733	515,623	520,529	764,985	818,209
August . . .	386,916	502,418	540,408	510,214	944,486	1,042,608
September .	374,517	387,366	530,826	550,974	712,994	882,348
October . .	343,431	370,238	419,474	467,155	601,595	511,039
November .	304,208	361,416	384,683	440,689	520,946	482,570
December .	297,890	336,777	364,196	426,752	501,669	460,994
Daily average,	328,212	374,949	452,032	450,705	594,930	624,381

RECEIPTS FOR THE YEAR 1883.

Received on account of water-rates of 1883	\$29,308 12	
Received on account of water-rates of 1882	1,568 27	
Received on account of meter-rates,	18,414 03	
Received on account of build'g-rates,	37 53	
	<hr/>	\$49,327 95
Received for service-pipes . . .	\$3,083 57	
Received for meters and setting . .	2,157 55	
Received for repairing meters . . .	338 67	
Received for repairing services . . .	15 60	
Received for turning off and on wa- ter, sealing fixtures, etc.	132 11	
Received for material sold	614 28	
	<hr/>	6,341 78
Total receipts during 1883		<hr/> \$55,669 73

EXPENDITURES FOR THE YEAR 1883.**MAINTENANCE ACCOUNT.**

Amount of appropriation	\$13,500 00
Expense of water registrar's office, including salary of registrar, in- spector, travelling, and miscel- laneous expenses	\$2,675 77
Expense of superintendent's office, including salary of superintend- ent, travelling, miscellaneous, and pipe-yard expenses	2,132 62
Expense at pumping station, includ- ing salaries of engineer, fireman, and watchman, fuel, repairs, and supplies	5,858 90
Expense of maintenance of reservoir,	533 81
Expense of maintenance of mains . .	577 40
Expense of maintenance of hydrants,	250 79
Expense of maintenance of service- pipes	238 04

Expense of maintenance of filter-basin	\$663 64	
Expense of maintenance of stand-pipes	90 63	
Expense of maintenance of city teams	252 39	
Miscellaneous expenses	208 52	
	<hr/>	\$13,482 51
Balance of appropriation unexpended		\$17 49

SPECIAL APPROPRIATION FOR CLEANSING FILTER-BASIN.

Amount of appropriation	\$3,000 00
Amount expended	2,783 50
	<hr/>
Balance unexpended	\$216 50

SERVICE AND METER ACCOUNT.

Amount of appropriation	\$5,500 00
Expended for services (new)	\$2,728 20
Expended for meters (new)	1,649 27
Expended for maintenance services	71 90
Expended for maintenance meters	489 18
Expended for inspection	339 16
Expended for city teams	178 00
Expended for flooding fields	30 68
Expended for sundries	12 26
	<hr/>
	5,498 65
	<hr/>
Balance unexpended	\$1 35

CONSTRUCTION ACCOUNT.

Expended on account of new mains	\$19,698 10
Expended on account of new hydrants	1,420 98
Expended on account of new services	4,362 72
Expended on account of new stand-pipes	210 82
Expended on account of new water-gates	943 74
Expended on account of tools and repairs	594 06

Expended on account of suit <i>versus</i> Devlin, Long, and Moore	\$1,038 95
Expended on account of city teams	319 04
Expended on account of new dwelling	341 35
Expended on account of pumping station grounds	646 31
Expended on account of new pipe-shed	175 00
Expended on account of pumping station im- provements	7,279 97
Expended on account of miscellaneous expenses,	9 65
	<hr/>
	\$37,040 69

CR.

Received from Devlin, Long, and Moore suit	\$4,624 13
Received from sale of stone	20 00
Received from sale of pipe	594 28
	<hr/>
	5,238 41
	<hr/>
Net expenditure for construction during 1883	\$31,802 28
Net expenditure for construction previous to 1883	911,189 65
	<hr/>
Net expenditure for construction, Dec. 31, 1883	\$942,991 93

INTEREST ACCOUNT.

Amount appropriated and expended for interest on water-bonds during 1883	\$50,900 00
---	-------------

Respectfully submitted.

(Signed) THE NEWTON WATER BOARD,
By EDWARD W. CATE, *President*.

COMPARATIVE STATEMENT OF RECEIPTS AND EXPENDITURES FROM 1878 TO 1883
INCLUSIVE.

YEAR.	EXPENDITURES.				RECEIPTS.				DEFICIENCY.
	INTEREST.	MAINTENANCE.	SERVICES AND METERS.	TOTAL.	WATER-RATES.		SERVICES AND METERS.	TOTAL.	
					FROM CITY.	OTHER SOURCES.			
1878 . .	\$44,800 00	\$9,777 69	\$6,997 45	\$61,575 14	\$5,896 74	\$17,598 33	\$5,280 55	\$25,775 62	\$35,799 52
1879 . .	45,500 00	8,841 20	4,860 57	59,201 77	6,132 50	21,023 02	3,138 68	30,294 20	28,907 57
1880 . .	47,750 00	9,223 70	4,212 24	61,185 94	8,919 00	24,815 58	6,192 40	39,926 98	21,258 96
1881 . .	48,900 00	12,682 49	4,951 20	66,533 69	8,533 18	26,953 10	5,206 48	40,692 76	25,840 93
1882 . .	49,600 00	13,811 62	5,590 63	69,002 25	9,729 01	32,703 38	5,454 59	47,886 98	21,115 27
1883 . .	50,900 00	16,266 01	5,498 65	72,664 66	12,851 22	36,476 73	5,727 50	55,055 45	17,609 21

ANNUAL REPORT
OF THE
SCHOOL COMMITTEE
OF THE
CITY OF NEWTON.
1883.

NO. XLIV.



BOSTON:
ALFRED MUDGE & SON, PRINTERS,
No. 24 FRANKLIN STREET.
1884.

ORGANIZATION OF THE SCHOOL COMMITTEE.

JANUARY, 1883.

HON. WILLIAM P. ELLISON, MAYOR, CHAIRMAN, *ex officio*.

EDWIN W. GAY, PRESIDENT COMMON COUNCIL, *ex officio*.

REV. AMOS E. LAWRENCE, CHAIRMAN.

ISAAC HAGAR, SECRETARY.

JOHN E. KIMBALL, SUPERINTENDENT.

<i>Elective Members.</i>	<i>Wards.</i>	<i>Term of office expires</i>
EDMUND W. CONVERSE	I.	January, 1886.
CHARLES H. STONE	I.	" 1886.
JOHN W. DICKINSON	II.	" 1886.
A. AMELIA SMEAD	II.	" 1886.
JULIUS L. CLARKE	III.	" 1885.
FISHER AMES*	III.	" 1884.
WILLIAM S. SMITH	IV.	" 1885.
ISAAC HAGAR	IV.	" 1885.
JOHN A. GOULD	V.	" 1884.
EDWIN P. SEAVER	V.	" 1884.
EMILY W. HYDE	VI.	" 1884.
AMOS E. LAWRENCE	VI.	" 1884.
GEORGE W. SHINN	VII.	" 1884.
LINCOLN R. STONE	VII.	" 1885.

* Elected to fill a vacancy.

STANDING COMMITTEES.

High School. — Amos E. Lawrence, Fisher Ames, John W. Dickinson, William S. Smith, George W. Shinn, Edmund W. Converse, Edwin P. Seaver, and the Mayor, *ex officio*.
Evening Schools. — George W. Shinn, Lincoln R. Stone, John W. Dickinson.
Music. — Lincoln R. Stone, A. Amelia Smead, Emily W. Hyde.
Drawing and Writing. — A. Amelia Smead, Charles H. Stone, Emily W. Hyde.
Industrial Drawing. — John A. Gould, Charles H. Stone, Edwin W. Gay.
Text-Books. — Amos E. Lawrence, William S. Smith, Julius L. Clarke.
Rules and Regulations. — George W. Shinn, Amos E. Lawrence, Edwin P. Seaver.
Salaries. — Edmund W. Converse, Edwin W. Gay, Fisher Ames.
Schoolhouses. — Isaac Hagar, Charles H. Stone, Lincoln R. Stone.
Accounts and Printing. — Isaac Hagar, Fisher Ames, Julius L. Clarke.

DISTRICTS.

NEWTON CENTRE.

AMOS E. LAWRENCE, Newton Centre.	JOHN A. GOULD, Newton Upper Falls.
EMILY W. HYDE, Newton Highlands.	EDWIN P. SEAVER, Newton Highlands.
	EDWIN W. GAY, Newton.

UPPER FALLS.

JOHN A. GOULD, Newton Upper Falls.	AMOS E. LAWRENCE, Newton Centre.
ISAAC HAGAR, Newton Lower Falls.	EDWIN P. SEAVER, Newton Highlands.
	EMILY W. HYDE, Newton Highlands.

LOWER FALLS.

WILLIAM S. SMITH, Auburndale.	FISHER AMES, West Newton.
	ISAAC HAGAR, Newton Lower Falls.

WEST NEWTON.

JULIUS L. CLARKE, West Newton.	FISHER AMES, West Newton.
JOHN W. DICKINSON, Newtonville.	WILLIAM S. SMITH, Auburndale.
	A. AMELIA SMEAD, Newtonville.

NEWTONVILLE.

JOHN W. DICKINSON, Newtonville.	A. AMELIA SMEAD, Newtonville.
LINCOLN R. STONE, Newton.	CHARLES H. STONE, Newton.
	EDMUND W. CONVERSE, Newton.

NEWTON.

LINCOLN R. STONE, Newton.	GEORGE W. SHINN, Newton.
EDMUND W. CONVERSE, Newton.	CHARLES H. STONE, Newton.
	EDWIN W. GAY, Newton.

ORGANIZATION OF THE SCHOOL COMMITTEE.

JANUARY, 1884.

HON. J. WESLEY KIMBALL, MAYOR, CHAIRMAN, *ex officio*.

SAMUEL L. POWERS, PRESIDENT COMMON COUNCIL, *ex officio*.

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JOHN W. DICKINSON	II.	" 1886.
A. AMELIA SMEAD	II.	" 1866.
JULIUS L. CLARKE	III.	" 1885.
FISHER AMES *	III.	" 1885.
WILLIAM S. SMITH	IV.	" 1885.
ISAAC HAGAR	IV.	" 1885.
JOHN A. GOULD	V.	" 1887.
ALBERT B. PUTNEY	V.	" 1887.
CHARLES C. BARTON	VI.	" 1887.
WILLIAM D. PHILBRICK	VI.	" 1887.
GEORGE W. SHINN	VII.	" 1887.
LINCOLN R. STONE	VII.	" 1885.

* Elected to fill a vacancy.

STANDING COMMITTEES.

High School.—Julius L. Clarke, Fisher Ames, John W. Dickinson, William S. Smith, George W. Shinn, Edmund W. Converse, Charles C. Barton, and the Mayor, *ex officio*.

Evening Schools.—George W. Shinn, Lincoln R. Stone, William D. Philbrick.

Music.—Lincoln R. Stone, A. Amelia Smead, Albert B. Putney.

Drawing and Writing.—A. Amelia Smead, Charles H. Stone, Albert B. Putney.

Industrial Drawing.—John A. Gould, Charles H. Stone, Samuel L. Powers.

Sewing.—A. Amelia Smead, George W. Shinn, William D. Philbrick.

Text-Books.—Julius L. Clarke, William S. Smith, Charles C. Barton.

Rules and Regulations.—George W. Shinn, John W. Dickinson, William S. Smith.

Salaries.—Edmund W. Converse, Samuel L. Powers, Fisher Ames.

Schoolhouses.—Isaac Hagar, Charles H. Stone, Lincoln R. Stone.

Accounts and Printing.—Isaac Hagar, Fisher Ames, Julius L. Clarke.

DISTRICTS.

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SAMUEL L. POWERS, Newton.

UPPER FALLS.

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ISAAC HAGAR, Newton Lower Falls.

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CHARLES C. BARTON, Newton Centre.

LOWER FALLS.

WILLIAM S. SMITH, Auburndale.

FISHER AMES, West Newton.

ISAAC HAGAR, Newton Lower Falls.

WEST NEWTON.

JULIUS L. CLARKE, West Newton.

FISHER AMES, West Newton.

JOHN W. DICKINSON, Newtonville.

WILLIAM S. SMITH, Auburndale.

A. AMELIA SMEAD, Newtonville.

NEWTONVILLE.

JOHN W. DICKINSON, Newtonville.

A. AMELIA SMEAD, Newtonville.

LINCOLN R. STONE, Newton.

CHARLES H. STONE, Newton.

EDMUND W. CONVERSE, Newton.

NEWTON.

LINCOLN R. STONE, Newton.

GEORGE W. SHINN, Newton.

EDMUND W. CONVERSE, Newton.

CHARLES H. STONE, Newton.

SAMUEL L. POWERS, Newton.

CITY OF NEWTON.

IN BOARD OF SCHOOL COMMITTEE, Sept. 26, 1883.

The Chair appointed the following-named members as the committee to prepare the Annual Report; viz., Amos E. Lawrence, Edwin W. Gay, Edwin P. Seaver, John A. Gould, and Julius L. Clarke.

Dec. 26, 1883.

The Annual Report was presented by Rev. Amos E. Lawrence, and accepted.

Jan. 9, 1884.

Ordered, That twenty-eight hundred copies of the Annual Report be printed.

ISAAC HAGAR,
Secretary.

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REPORT OF THE SCHOOL COMMITTEE.

TO THE CITIZENS OF NEWTON:—

In submitting herewith their Forty-fourth Annual Report, the School Committee of Newton congratulate their fellow-citizens anew on the results of their system of public education. That it is a costly system is not to be denied. The fact that it is continued, however, from year to year, is proof that it is acceptable to our fellow-citizens, notwithstanding its expensiveness. It is, in fact, a system of more than regal munificence; and to the thoughtful observer it is one of the most significant features of our government. That a city of seventeen or eighteen thousand inhabitants should be willing to spend a hundred thousand dollars annually on its schools, or about one fourth of the gross amount of its income from taxes,—devoting this money not to the aggrandizement of the city, nor to the amusement or diversion of a restless and dangerous populace, but to the mental training of her children,—is something more than munificent. The policy is a wise one also,—as sagacious and far-sighted as it is liberal. Of this, every year's experience brings new proof. The policy has characterized Newton from the first, and finds its ample justification in the fruits it bears. That it is perfect in all its workings, no one claims. That the wisdom and experience of the future will not modify it in some of its features, and point out some better methods of school

training than those now approved and practised, no one doubts. Indeed, the best evidence of its life is that it is growing. It must advance. The very mistakes we have made — errors of judgment, not of negligence — will save us from repeating them, and have cleared the atmosphere for the future. But one thing we shall not change, and that is the policy of liberal appropriations. Let this be reversed,— let it be supplanted by one of timid or niggardly sparing,— and the mistake would soon be revealed. Newton would suffer loss thereby, not only in the reputation of her schools, but in the city treasury also, furnishing a new illustration of the old truth,—“There is that withholdeth more than is meet, but it tendeth to poverty.” Our schools have brought us worthy citizens and taxable wealth, and especially that youthful vigor and enterprise that instinctively shun an over-cautious and stagnant town. To those who are looking for a home, a hundred thousand dollars a year expended for schools is an argument readily understood, and needing no further elaboration than its simple publication. Moreover, a well-taught community is a well-governed one. The school teacher, if competent, is the best arm of the police; for by the training he gives he makes the citizen his own governor. It is only a logical result that in such a community the dram-shop is closed and private rights are respected. A community thus patiently seeking the higher culture must attract to itself the cultured. And for the same reason wealth also will be drawn to it, that it may place itself under the shield of a broader law than that of legal enactment,—the law of self-respect ruling in the breast of each of its educated citizens.

Newton became a city in 1873. The aggregate expenditures of these ten years, exclusive of sums spent on new buildings, has been \$884,431.85, an average, that is, of \$88,443.18 $\frac{1}{2}$ a year. The details are as follows:—

Expenditure for 1874	\$97,353 65
Expenditure for 1875	96,649 23
Expenditure for 1876	86,533 64
Expenditure for 1877	83,917 89
Expenditure for 1878	83,208 63
Expenditure for 1879	82,260 08
Expenditure for 1880	83,613 47
Expenditure for 1881	83,700 27
Expenditure for 1882	91,252 72
Expenditure for 1883	95,942 27

The maximum average whole number of pupils at the public schools in 1873 and 1883, respectively, was as follows:—

SCHOOLS.	1873.	1883.
High	201	313
Mason	265	404
Oak Hill	42	28
Thompsonville		40
Hyde	76	185
Prospect	244	232
Hamilton	118	103
Williams	197	268
Pierce	165	195
Davis	222	203
Franklin	62	160
Adams	146	210
Claflin	123	166
Jackson	228	299
Bigelow	390	312
Underwood		185
Lincoln	82	50
Total	2,561	3,353

In the report of the board for the year 1881, and again in 1882, attention was called to the needs of this department in the matter of additional accommodation for the steadily increasing number of our pupils. During the past year appropriations have been made by the City Council to meet in part this want, and two new schoolhouses are now being erected, and are well advanced towards completion. It is expected that they will be ready for occupancy before the commencement of the school year of 1884. Besides this, a considerable sum has been expended in repairs and alterations, made necessary, in part at least, by mistakes in the original designs for the buildings.

Ward 6 still needs an additional building for the relief of the Mason School, and the city will probably be called upon next year, 1884, to furnish the funds for its erection.

The committee cannot omit from this report an acknowledgment of their indebtedness to Mr. and Mrs. S. R. Urbino, of this city, for a valuable collection of specimens of natural history and other objects of educational value, presented by them to be the permanent property of the city. This collection has been deposited in the High School building, in an appropriate and beautiful case, of ready access to the pupils of the schools and the public generally, and will be known as the "Urbino Collection."

In this connection, also, we take great pleasure in acknowledging the donation by Mr. William E. Sheldon, of West Newton, of a valuable collection of educational books, about one hundred volumes, to the Pierce School, for the use of the pupils and teachers.

The committee invite attention to the accompany-

ing report of the Superintendent of Schools, as embodying in its details of the year, and in its discussions and recommendations, very much that is of primary importance to the welfare of the schools.

The report of the Secretary will also be found appended; and also extracts from various reports of committees appointed by the board.

AMOS E. LAWRENCE,

Chairman.

HIGH SCHOOL.

THE High School, until the close of the school year ending June 29, 1883, was under the charge of the same teachers as at the time of rendering the last annual report. The only change in the corps of teachers, during the school year which began last September, has been occasioned by the resignation of Mrs. Bowler, our faithful and accomplished teacher of drawing. Circumstances requiring that she should relinquish teaching entirely for the present, she has withdrawn from the position which she has filled so long and so well. The vacancy thus occasioned has been filled by the appointment of Miss Adeline V. Pond, a former pupil of Mrs. Bowler's, and a graduate of the High School, who has thus far most successfully carried on the work of the department.

The total number of pupils in the school during the school year 1882-3 was three hundred eleven, nine more than the previous year. The following table may be of interest showing the changes in attendance during the last ten years: —

YEAR ENDING JUNE.	Total Number.	Average Number.	Average Attendance.
1874	295	204	193
1875	237	221	207
1876	272	233	221
1877	261	244	229
1878	276	256	239
1879	282	253	233
1880	319	277	258
1881	313	269	252
1882	302	274	258
1883	311	270	250

The total number for the present year up to the date of writing, Jan. 15, 1884, is three hundred twenty-eight.

The distribution of the pupils by classes and courses of study will be seen in the following tables :

TABLE I.

CLASS.	Boys.	Girls.	Total.
I.	25	25	50
II.	27	27	54
III.	46	50	96
IV.	51	60	111
	149	162	311

TABLE II.

CLASS.	General.	Classical.	Mercantile.	Special.	Total.
I.	29	15	0	6	50
II.	27	14	3	10	54
III.	51	20	13	12	96
IV.	48	22	12	29	111
	155	71	28	57	311

TABLE III. — BOYS.

CLASS.	General.	Classical.	Mercantile.	Special.	Total.
I.	10	12	0	3	25
II.	10	9	3	5	27
III.	15	10	13	8	46
IV.	15	19	11	6	51
	50	50	27	22	149

TABLE IV.—GIRLS.

CLASS.	General.	Classical.	Mercantile.	Special.	Total.
I.	19	3	0	3	25
II.	17	5	0	5	27
III.	36	10	0	4	50
IV.	33	3	1	23	60
	105	21	1	35	162

Whole number (9 more than last year)	311
Average whole number	270
Average daily attendance	250
Per cent attendance	92.5
Whole number boys (5 more than last year)	149
Whole number girls (4 more than last year)	162
Whole number in General Course (16 more than last year)	155
Whole number in Classical Course (10 fewer than last year)	71
Whole number in Mercantile Course (1 fewer than last year)	28
Whole number in Special Courses (4 more than last year)	57

AVERAGE AGE, SEPTEMBER 4, 1882.

Class I. $17\frac{0}{12}$ years.	Last year, 18
Class II. $16\frac{7}{12}$ years.	Last year, $16\frac{1}{2}$
Class III. $15\frac{10}{12}$ years.	Last year, $15\frac{1}{2}$
Class IV. $15\frac{3}{12}$ years.	Last year, $15\frac{4}{12}$

GRADUATING CLASS.

Of the class graduated last June, forty-one took the full four-years' course (thirteen classical, twenty-eight general), and the remaining nine a three-years' course. The whole number graduated was fifty. Of these, six entered Harvard College, four the Massachusetts Institute of Technology, four Boston University, two the Harvard Medical School, one each

Yale College, Williams College, Wellesley College, and the Kindergarten Normal School.

As in accordance with established precedent, the list of the graduates of the High School is to be printed in full at intervals of five years, it is appended to the present report, the list having been printed last in the report for 1878. As some pages will thus be occupied, attention will further be drawn only to some of the more important matters of interest in connection with the school.

In the course of study as established by the Committee, prominence is deservedly given to scientific studies. From the very character of these studies, they cannot be taught by the use of the text-book alone. The facts and principles must be presented in visible and tangible form, and the pupil's power of observation must be trained and rendered exact. It is obvious that to do this successfully, considerable apparatus is needed, especially in illustrating experiments in physics. For the last two years a small appropriation has been made for the purpose of increasing the stock of apparatus on hand, and it is to be hoped that this precedent will be followed from year to year, until all the more important illustrations of the principles of chemistry and of natural philosophy can be used, in co-operation with the printed page of the text-book, and with the enthusiasm and oral instruction of the teacher. During the first term of the present school year, such interest in the subject was developed in the classes in physics, that the pupils, at their own instance, raised more than \$50 among their parents and friends, for the purchase of additional illustrative apparatus. Although the contribution

was welcome, it is plain that this method of filling the needs of the school is for many reasons undesirable. Ample case room is still vacant, and a small but regular annual appropriation would before long fill the cases with a most valuable equipment in the important department of the sciences.

In the class beginning the study of English and English literature, the experiment has now been tried throughout an entire year of dispensing with a text-book on the subjects which Abbott's "How to Write" was intended to cover. In place of such a book, notes have been dictated to the classes, covering the more important elements of correct English, and pointing out the errors and mistakes actually found to be those most frequently occurring. The experiment has proved successful, and unless the Committee decide otherwise, no text-book will for the present be recommended for use in this branch of study.

During the long vacation of 1883, a large portion of the furniture of the school was much improved in appearance by being cleaned, repaired, and painted. A portion still remains needing similar attention. Much of this furniture had been in use from the first opening of the school, and plainly was greatly in need of renovation.

Perhaps the most important topic presenting itself with reference to the High School is the policy to be decided upon, in proportioning the number of teachers to the number of the pupils. The limit has certainly been passed, at which the teachers can be held responsible for such success in their teaching as they and the Committee would desire. As was stated above, the

whole number of pupils in the school since Sept. 3, 1883, has been three hundred twenty-eight, and up to the date of writing the average number belonging has been over three hundred. The whole number in the class in algebra at the beginning of 1884, including the pupils in the upper classes that are reviewing this study, was one hundred fifty-five. The necessities of the programme rendered only three divisions possible in this class. It is fortunately the case that this is an extreme instance, but all of the teachers are now worked harder than is consistent with their health, or with the best success of their efforts in teaching. The suggestion has been made, that the size of the school be limited, by raising the standard of admission, and that the number of pupils be not suffered to rise above three hundred. It is true, that a comparison with the statistics of other cities would show, that perhaps in no other city is the High School attendance so large a percentage of the population, as in Newton. But it is not likely, that the School Committee, or the intelligent population which they represent, will consent to an abridgment of the educational advantages offered to their children. The only other means of meeting the difficulty is by an addition to the teaching force. Unless the prospect for next year shall be of a much smaller High School attendance than now seems at all probable, the appointment of another assistant teacher in the school would appear an absolute necessity.

In conclusion, it may not be amiss, to make a suggestion with reference to the very considerable public burden, which a generous support of secondary education, free to all those qualified to partake of it,

inevitably brings upon the city treasury. It furnishes an opportunity to those possessed of wealth, not only to build a monument to their memory "more enduring than bronze," but also to secure the nobler and worthier object, of making their wealth a blessing to future generations, as long as civilization shall endure. Our colleges and universities are constantly and deservedly receiving endowments, without which they could not furnish their training at a tuition comparatively only nominal. An equally commendable use of wealth would be the erection within one's own city of a commodious High School building, or the endowment of such a school with funds for the payment of its teachers. Such has been the foundation of many of the great schools of Europe, and in our own country, towns and cities have from time to time received gifts of this character. Among these may be mentioned, in our own State, the town of Ashburnham and the city of Fall River. In Newport, R. I., with a high school attendance of one hundred eight, the Rogers endowment provides a fine building and a corps of seven teachers, of whom the principal is paid a salary of \$3,500. Some portion of the annual cost of the school is sustained by the city; but so thoroughly equipped a school the city would scarcely support at its sole expense. Is it too much to hope that examples of this kind may some day be imitated in Newton?

GRADUATES OF THE HIGH SCHOOL, 1883.

FOUR-YEARS' COURSE.

CLASSICAL.

ABBY B. BATES.	WILLIAM GOODYEAR.
EDGAR BUCKINGHAM.	FRANK C. HOWE.
MORTON E. COBB.	GEORGE P. KNAPP.
JULIA N. COLE.	LIZZIE SHINN.
HERMAN T. COOLIDGE.	JAMES SULLIVAN, JR.
BANCROFT L. GOODWIN.	ALONZO R. WEED.
ARTHUR H. WILDE.	

GENERAL.

CHARLES L. BARTLETT.	ALICE M. NEWELL.
GEORGE A. BERRY.	MARION E. NICKERSON.
ROBERT W. BUSH.	MINNIE H. POWELL.
FANNY B. CARPENTER.	MINER ROBINSON.
JÉANNETTE W. COBB.	FRANCES E. SAWYER.
WINTHROP COLE.	ADDIE A. SCOTT.
JOHN A. DANIELS.	D. WALDO STEARNS.
LILLIAN EDDY.	SARAH J. STORMS.
MARY A. FOWLE.	MARY P. SYLVESTER.
GEORGE W. GILBERT.	NELLIE A. VOSE.
LILIAN G. HAYDEN.	ALBERTA H. WARD.
ANNIE A. JACKSON.	GEORGE H. WARE.
OLIVE E. KNOWLES.	GRACE A. WARREN.
FRANK E. LECOMPTE.	HELEN WHEELER.

THREE-YEARS' COURSE.

LIZZIE C. ALLEN.	ELLA M. A. PARKER.
MARY G. HARKINS.	FLORENCE A. PHELPS.
WELLES E. HOLMES.	ELLEN L. SAMPSON.
JAMES H. MEEKINS.	ALICE L. STOWELL.
ANGIE B. TOWNE.	

MATHEMATICAL DEPARTMENT.

The unwelcome and untoward event of the year in this department was the withdrawal of Mr. Kent to the charge of the High School in the capital of a neighboring State. The record which Mr. Kent has been making year after year in our High School work has rendered his continuance in a subordinate position more and more improbable. Therefore it was with no surprise, though with great reluctance and regret, that we were called upon to surrender him to stronger attractions.

Fortunately, in the sudden emergency the services of S. Warren Davis were secured, whose previous connection with the High School enabled him to take up the work of this department with the least possible disturbance of the ordinary course of instruction. Geometry and review Mathematics were assigned to the new teacher, and his success in these and other branches of instruction were so satisfactory that he has received the permanent appointment of Assistant Master.

The organization by Mr. Cutler of a class in Geography for those members of the fourth class who did not wish to take Algebra is regarded as a wise innovation. For it is very questionable, at least, whether in the limited range of the common-school course any place should be allowed for purely disciplinary studies, such as Algebra must be to many in every fourth class. While, on the other hand, Geography is becoming an increasingly important and practical branch of even the commonest education. Not only

is geographical insight indispensable to an adequate appreciation of historical events, but without it there cannot be a practical mastery even of the daily newspaper. Therefore, with all due loyalty to the legitimate province of mathematics, we believe that this concession has been, and others, perhaps, might be wisely made to geographical studies.


This reduction of labor in Algebra also relieved a very inconvenient pressure upon Geometry, which had been long deplored as unavoidable, so that the work of both departments since the change has been made, in respect alike to quantity and quality, has been unusually gratifying.

The disadvantages of large divisions and of united extremes in scholarship occasioned by throwing open Commercial Arithmetic and Bookkeeping to all pupils irrespective of class standing is thought to be preferable to any arrangement which should exclude any pupils from these important studies.

W. S. SMITH.

GRADUATES OF THE HIGH SCHOOL.

[A full list of the graduates of the High School was published in the Annual Reports for the years 1873 and 1878. This list is here repeated, with the names added of those who have graduated in the five years since the latter date.]

 The figure (3) marks a graduate of the three-years' course. The others are graduates of four years.

Class of 1861.

Ethie M. Bigelow.
Kate M. Cobb.
Hattie M. Cooley.
Lizzie Spear. — 4.

Class of 1862.

J. Cooledge Coffin.
Hattie Cousens.
S. Lillie Graves.
Fannie Horton.
Annie R. Train.
Anna L. Woodward. — 6.

Class of 1863.

Hattie E. Allen.
George Linder.
Herbert M. Small. — 3.

Class of 1864.

Willard G. Brackett.
W. Russell Brackett.
Nancy J. Evans.
Edwin A. Gay.
Gustavus Goward.
William G. Sinclair.
Ellen A. Stearns. — 7.

Class of 1865.

Hannah A. Edes.
William H. Gould.
Charlotte W. Hyde.

Edward H. Mason.
Frederick Schoff.
Cora Small. — 6.

Class of 1866.

Carrie E. Fitch.
Abbie M. Small.
Louise W. Stearns.
Harriet W. Strong.
Julia E. Sweet.
Mary R. Ware.
Martha S. Ware.
Mary O. Whitmore.
Emily J. Young. — 9.

Class of 1867.

Samuel Carr, Jr.
Sara E. Cushman.
Isabella C. Patten.
Annie A. Pulsifer.
Robert E. Williams. — 5.

Class of 1868.

Clara R. Boit.
George R. Collins.
Charlotte E. Frogley.
Sarah E. King.
Thomas Linder.
Abbie R. Stevens.
Susie W. Tarbox.
Emma S. Warren.
Mary E. Woodward. — 9.

Class of 1869.

Kate Ashton.
 Persis D. Bray.
 John W. Chisholm.
 Mary C. McCutcheon.
 James W. French.
 Julia A. Robinson.
 Edward S. Smilie.
 Isabel Stetson.
 Minnie J. Thrall.
 William F. Whittemore.
 Sarah J. Wood.
 Sarah G. Woodworth. — 12.

Class of 1870.

Genevieve H. Alexander.
 Edward W. Cate.
 George H. Coffin.
 Edith C. Danforth.
 Carrie P. Ellis.
 Alfred Ely.
 Annie M. Hinckley.
 Emilie D. Huntley.
 Helen J. Merritt.
 Emily S. Moore.
 Alfred Schoff.
 H. Adelaide Stearns.
 Ida M. Stone.
 Ella G. Sweetser.
 Louise M. Sweet. — 15.

Class of 1871.

William S. Barnum.
 Fannie M. Chaffin.
 Maggie Connell.
 William B. Ely.
 J. Walter Fewkes.
 Jeannette A. Grant.
 William H. Holman.
 Alotta E. Stearns. — 8.

Class of 1872.

Franklin C. Bacon.
 Hattie M. Boit.
 A. Lawrence Bond.
 Nellie J. Butler.
 Freda B. Emerson.
 Gordon G. Gammons.
 John F. Kent.
 Allan H. Lincoln.
 Nelson C. Parker.
 Alice Ranlett.
 Louis C. Stanton.
 Alotta C. Wilmarth. — 12.

Class of 1873.

Lydia A. Brierley.
 Heman M. Burr.
 Bertha Carroll.
 A. S. M. Chisholm.
 S. Warren Davis.
 Albert S. Glover.
 John A. Gould.
 Lilla F. Hall.³
 George W. Hills.
 Samuel Leland.
 Walter B. Mosman.
 Otis T. Pettee.
 Frances M. Rice.
 Carrie E. Richardson.
 May O. Russell.³
 Harry O. Slocum.
 Ethie A. Smilie.
 Elizabeth O. Stone.
 M. Louise Stone.
 Harvey C. Wood. — 20.

Class of 1874.

S. Emma Bacon.
 George K. Boutelle.
 Hattie Child.

Nellie M. Converse.³
 Lizzie W. Everett.
 Warren P. Lombard.
 William H. Mansfield.³
 Henry W. Mason.
 George A. Mead.³
 Alice M. Ray.
 Susie F. Richards.
 Gardner G. Sanborn.³
 Eunice C. Speare.
 Martha S. Stacy.
 William O. Stearns.
 Emma L. Stevens.
 Julia H. Strong.
 M. Josephine Thacher.
 Linwood O. Towne.³
 Charles H. Ware.
 Ernest U. Waters.
 Arthur H. Wellman.
 Minnie F. Wood. — 23.

Class of 1875.

Mortimer B. Allen.³
 Joseph F. Batchelder.³
 Carrie L. Bourne.
 Lillie M. Broughton.³
 Isaac T. Burr, Jr.
 Olen L. Carter.
 Nellie N. Cole.
 Edward W. Cook.³
 George M. Cranitch.³
 Ellen F. Dalrymple.
 Mary G. Day.
 Oliver M. Fisher.
 Bertha Forbes.³
 Annie F. Gage.
 Henry E. Gordon.
 Lucia D. Guild.
 Mary E. Jenison.³
 Charles S. Johnson.³

William W. Johnson.
 Lyman W. King.
 Arthur W. Kelley.
 James L. Lester.
 J. Maud Lincoln.
 Sarah E. Lyon.
 Margaret A. Mague.
 Carrie J. Newell.
 Charles R. Noyes.³
 Emma A. Page.³
 Hattie M. Peirce.
 Cora G. Plimpton.³
 Fredrick J. Ranlett.
 Helen O. Roberts.
 Abbie A. Ryder.
 Nellie S. Sherman.
 Alice E. Sinclair.³
 Willard E. Smith.
 Nellie M. Sullivan.³
 Herbert F. Sylvester.³
 William H. Sylvester.
 Edward B. Towne.³
 Mary E. Tufts.
 Sarah E. Tufts.
 Bradford S. Turpin.
 Ella Warren.³
 Jesse Warren.³
 Marion E. Williams.
 Alice M. Woodward.³ — 47.

Class of 1876.

Katherine L. Bates.
 Alice W. Bond.
 Harry E. Bothfeld.³
 Abbie G. Chamberlain.
 Mary R. Colby.³
 Charlotte Converse.
 Maria S. Daniels.
 Lilla O. Davidson.
 Winchester W. Eager.³

Florence G. Eastman.
 Mary W. Fuller.³
 Lilla M. Garey.
 Emma E. Hicks.
 Joel E. Hills.
 Edward F. Jenison.³
 Charles S. Johnson.
 John O. Johonnot.³
 Sarah A. Jordan.
 Nellie S. Kendall.
 Frederick C. Leslie.
 Charles E. Lord.³
 Annie March.
 Louisa P. Merritt.
 Caroline L. Mills.
 Lizzie J. Moore.
 Emily Norcross.
 Francis M. Parker.
 William A. Pew, Jr.
 Benjamin C. Pond.
 William D. Porter.
 Margarette H. Price.³
 Joseph L. Rhees.³
 Margaret H. Sargent.
 Mary E. Scales.³
 Denison R. Slade.
 H. Alonzo Sherman.
 Frederick W. Stone.
 Fannie C. Sweet.
 Samuel Weston.
 Edgar M. Wheeler.
 Eva G. Wiswall.
 Milly N. Woodford. — 42.

Class of 1877.

Herbert D. Allen.
 Edward Bagley.³
 E. Virginia Barney.
 N. Gertrude Bean.
 H. L. Beveridge.

Charles L. Bird.³
 Charles A. Brown.³
 Denis Buckley.³
 Hattie W. Chaffin.³
 Lizzie Coldwell.³
 William H. Coolidge.
 Eveline F. Crosby.
 Herbert N. Curtis.
 Sarah L. Dix.
 Laura E. Dyer.
 Minnie C. Ellenwood.
 Lewis P. Everett.³
 Frederick B. Gordon.³
 Charles F. Hall.³
 Jennie G. Hill.
 Marion F. Holbrook.³
 J. Norton Johnson.
 Frederick A. Kendall.³
 Carrie M. Kidder.
 William A. Lamson.
 William C. Lane.
 Mary A. Leonard.³
 Clinton H. Lord.
 Eugenia MacArdle.³
 Maggie Martin.
 Nettie F. Mosher.
 Abbie M. Nickerson.
 Frederick J. Parsons.
 Charles H. Reed.³
 Juliette V. Richards.
 Carrie L. Ring.
 Grace L. Robertson.³
 Ella M. Speare.
 John K. Taylor.³
 Caroline E. Tolman.³
 Helen S. Tolman.
 Grace Thompson.
 Lizzie S. Tourjée.
 Addie P. Tuttle.
 Charles M. Van Buren.

Harold Van Duzee.
 George A. Ward.³
 M. Alice Warren.
 Margaret C. Worcester.
 William L. Worcester. — 50.

Class of 1878.

Charles F. Bacon.
 Herbert R. Barney.³
 Albert C. Brackett.
 Elliott G. Brackett.
 William C. Bray.
 Elinor M. Buckingham.
 George D. Burrage.
 Charles P. Clark, Jr.
 Frank E. Clark.³
 Emma C. Coffin.³
 Howard Cole.
 Edmund W. Converse, Jr.
 Harriet L. Cooke.
 Frank A. Dakin.
 Ephraim Ellis.
 Frederick W. Emerson.
 Lewis H. Farlow.
 Frank W. French.³
 Francis E. Fuller.
 Minnie A. Gage.
 Henry W. Hardon.
 George R. Hovey.
 George O. C. Lawrence.
 Minerva E. Leland.
 Augusta A. Lentell.³
 Charles G. Morton.
 Michael S. Murphy.³
 Lilian F. Norton.
 Carl H. Park.³
 Julia M. Pickard.
 Florence W. Plimpton.
 Adeline V. Pond.
 Anna Underwood.³

William H. Wales.
 Robert F. West.³
 Elijah A. Wood. — 36.

Class of 1879.

Maud L. Atkinson.
 Edward L. Bacon.
 Charles E. Beck.
 Charles C. Bothfeld.
 Frances E. Bowen.
 Florence E. Briggs.
 Joseph W. Briggs.³
 Frona M. Brooks.
 Mary H. Buckingham.
 Fannie A. Buss.³
 Mary E. Chapin.
 Waldo W. Cole.³
 Cornelia Collins.
 Ida Collins.³
 Margaret Converse.
 Louis A. Coolidge.
 Aaron R. Crane.
 Jennie M. Daniels.
 John W. Dickinson, Jr.
 Lizzie B. Frost.
 Sydney Harwood.
 Lizzie H. Henry.³
 Walter H. Holbrook.
 Edward D. Holmes.³
 Lizzie C. Lawrence.
 Eliza J. Lovely.
 Alfred G. Loyd.³
 James H. McGovern.³
 George J. Martin.³
 Frank A. Mason.
 Emma A. Moore.
 Norma I. Morse.
 Oscar H. Perry.
 Annie P. Porter.
 Fred M. Rice.

Marion E. Sheldon.
 Lendo G. Smith.³
 Arthur K. Stone.
 Lizzie G. Tompson.
 Susan C. Wood.
 Charles P. Worcester. — 41.

Class of 1880.

Clara M. Adams.
 George T. Allen.³
 Harry W. Bean.³
 Helen L. Blackwell.³
 Marian S. Bosworth.³
 Winthrop M. Burr.
 John W. Byers.³
 Harry P. Cole, Jr.³
 Edward L. Collins.
 Charles H. Converse.
 Cornelius S. Corkery.
 Henry J. Cox.
 Charles T. Davis.
 George W. Eddy.³
 Maggie A. Fitz.
 Evelyn P. Garey.³
 Amy E. Gates.³
 Fred A. Gay.³
 Frank J. Hale.³
 Robert W. Hardon.³
 Daniel S. Harkness.³
 Josie M. Hopkins.³
 Walter M. Jackson.
 Walter B. Lancaster.
 Amos E. Lawrence, Jr.³
 Henry F. Mandell.
 John W. Paul.³
 Anna M. Pond.
 A. Stuart Pratt.
 Lilla A. Richardson.
 Laura Saltonstall.

Gertrude H. Smead.
 Lucy F. Soule.
 Gertrude G. Tewksbury.
 Mary Tourtellot.
 Marion F. Towne.
 William O. Underwood.
 Edward R. Utley.
 Dean A. Walker. — 39.

Class of 1881.

Joseph C. Ayer, Jr.³
 William F. Bacon, C.*
 David Baker.³
 Samuel K. Billings.³
 Julia Bissell, C.
 Winthrop S. Brackett.
 Mary W. Calkins, C.
 Edward H. Chandler, C.
 Leonard B. Clark, C.
 Marion B. Curtis.
 Sanford L. Cutler, C.
 Ada L. Donkin.
 Ella M. Donkin.
 James W. Dorney.
 Justin Edwards, C.
 Milo F. Hargedon.³
 Rose A. Harkins.
 David S. Herrick, C.
 Mary A. Hills.³
 Helen A. Hovey, C.
 Henry D. Kendall.
 Kate F. Mellish.³
 Frederick W. Miller.³
 Mary C. Mosman.
 Dean W. Park.³
 Nellie E. Putnam.
 Emma A. Robinson.
 Harry L. Rollins, C.
 Ellen S. Tewksbury, C.

* From this point C. designates graduates in the Classical Course.

Carrie Turner, C.
 Frederic W. Turner.³
 Emma E. Upham.
 George C. Warren.³
 Edward C. Washburn.³
 Arthur G. Webster, C.
 Wallace W. Willard, C.
 Edwin B. Woodin, C. — 37.

Class of 1882.

Harriet Avery.
 George E. Baird.³
 Milton H. Bancroft.³
 Sidney R. Bartlett.³
 Belle Blodgett.
 Susan H. Boit.
 Gertrude F. Bridgham.
 Edwin W. Bullock, C.
 Cora F. Butler.
 Alexandrine E. Chisholm.
 Catherine T. Condren.³
 Charles W. Davidson.³
 Bridget E. Devoy.³
 Pauline L. Dolliver.
 Livy H. Dorchester, C.
 Harry K. Dresser.³
 Louisa M. Eddy.
 Gertrude A. Elder.
 Mary A. Ellison.
 Josiah F. Fuller, Jr.
 John G. Hardy.³
 Sarah Hopkinson.³
 Harriet L. Hovey, C.
 George W. Lane.³
 Albert E. Leach.
 Lillie C. Mackay.
 Georgie L. Norton.
 William H. Noyes, C.
 Arthur H. Page.³
 Sarah L. Patrick.³

Grace T. Peloubet, C.
 George F. Pond, Jr.
 Grace E. Powars.
 Kathryn T. Raymond.³
 Clara M. Richardson.
 Lucy C. Ross.
 Fanny E. Smith.
 Mary L. Smith.
 Josephine A. Stewart.
 Sanborn G. Tenney, C.
 Frank H. Underwood, C.
 M. Louise Wadsworth.
 Nellie P. Warren.
 George M. Weed, C.
 Mary J. Wellington, C.
 George R. White, C. — 46.

Class of 1883.

Lizzie C. Allen.³
 Charles R. Bartlett.
 Abby B. Bates, C.
 George A. Berry.
 Edgar Buckingham, C.
 Robert W. Bush.
 Fanny B. Carpenter.
 Jeannette W. Cobb.
 Morton E. Cobb, C.
 Julia N. Cole, C.
 Winthrop Cole.
 Herman T. Coolidge, C.
 John A. Daniels.
 Lillian Eddy.
 Mary A. Fowle.
 George W. Gilbert.
 Bancroft L. Goodwin, C.
 William Goodyear, C.
 Lillian G. Hayden.
 Welles E. Holmes.³
 Frank C. Howe, C.
 Annie A. Jackson.

George P. Knapp, C.
 Olive E. Knowles.
 Frank E. Lecompte.
 James H. Meekins.³
 Alice M. Newell.
 Marion E. Nickerson.
 Ella M. A. Parker.³
 Florence A. Phelps.³
 Minnie H. Powell.
 Miner Robinson.
 Ellen L. Sampson.³
 Frances E. Sawyer.
 Addie A. Scott.
 Lizzie Shinn, C.

D. Waldo Stearns.
 Sarah J. Storms.
 Alice L. Stowell.³
 James Sullivan, Jr., C.
 Mary P. Sylvester.
 Angie B. Towne.³
 Nellie A. Vose.
 Alberta H. Ward.
 George H. Ware.
 Grace A. Warren.
 Alonzo R. Weed, C.
 Helen Wheeler.
 Arthur H. Wilde, C. — 49.

Classes	23
Graduates	526

GRAMMAR SCHOOLS.

NEWTON CENTRE DISTRICT.

MASON SCHOOL.

THE Mason School, during the year covered by this Report, has been well attended, well governed, and well taught. The number of pupils has remained about the same as last year—474 names appearing on its register—and all the classes have done good work and made commendable progress. They have been under the charge of Mr. Albert L. Harwood as master, and nine regular assistants, who have proved themselves anew faithful and efficient instructors, in love with their profession and anxious to do it and themselves honor. The first and fourth were both over-crowded at the beginning of the school year, which made it necessary to employ an additional teacher for the primary grades, who, however, left at the close of the year.

The School Register shows that the attendance of pupils has been exceptionally good during the year,—a most gratifying result, and one that is due to the judicious measures and aid of the city Superintendent of Schools. The tardinesses and absences have never been so few as during the year closing last June.

The class sent out from the school at the close of

the year was unusually large, — twenty-nine in all, — exceeding in number, it is believed, any class ever before graduated at this institution. Of these twenty-nine graduates, twenty-five received certificates of fitness to enter the High School and two others were admitted to that school on examination by the Superintendent.

The school reopened in September with full rooms and with the brightest outlook for the new year. The only change in the teaching corps is in the withdrawal of Miss Mary E. Jordan, and the appointment of Miss Susan C. Wood as additional teacher of the fourth grade.

The Oak Hill is still distinguished as the smallest of our city public schools, — numbering this past year, as also the year before, thirty-seven pupils in all. These have been under the care of Mr. C. Howard Wilson, a graduate of the Free College of the City of New York, and one who took the highest rank in that school. Under his efficient management the pupils of this school have done better than for many years before, and Mr. Wilson has secured by his work, and his gentlemanly deportment in and out of the school-room, the respect, confidence, and esteem of both pupils and parents. He has been reappointed by the Board and retains his position for the year to come.

The new year opened in September with brighter prospects than ever before, because with additional help. Though the school has been and must continue still very small, they have been of all grades, and it has been found impossible for a single teacher to keep the pupils abreast of those of the same grades in other schools of the city. The Board have, therefore,

wisely placed an additional teacher in the school to divide the work with Mr. Wilson and give him more time for his grammar classes. He has five pupils of the ninth grade, two of the fifth grade, and seven of the fourth. The primary school is under the care of the new assistant, Miss Annie E. Bancroft, a recent graduate of the State Normal School at Bridgewater, who held the first rank in her class in that institution. She has entered upon her work here with hope and zeal and a generous ambition to acquire a reputation, skill, and success as a teacher in the schools of Newton.

The patrons of this school never had brighter hopes for its success than now, and they are to be congratulated that after so long a time they are so well served.

AMOS E. LAWRENCE.

THOMPSONVILLE SCHOOL.

At the beginning of the school year, the lower rooms in the Mason School were so crowded that a change in the line of division between the Mason and Thompsonville districts was made by the District Committee.

By this means fifteen scholars were removed from the Mason to the Thompsonville School, making the whole number in the latter forty-five.

The teacher is working with her usual faithfulness and energy, but if the school continues to remain as full, she can hardly expect to accomplish as much for each class as can be done where there is but one or even two classes under a single teacher.

E. W. HYDE.

UPPER FALLS DISTRICT.

HYDE SCHOOL.

This school has passed a quiet and prosperous year. No complaints from parents, pupils, or teachers have reached the ears of your subcommittee except upon one subject, and that is the insufficient supply of heat on cold or windy days. Many days last winter, and already three or four days this winter, the school-house, or the greater part of it, has been so cold that it was not safe to keep the children in their seats. At the time of writing this report there are some indications that measures are about to be taken to remedy this long-standing difficulty.

The records of attendance and scholarship were inspected in June, and the promotions were made on them as a basis. The record was a good one, showing a steady devotion to work on the part of the teachers and the scholars. There were but a few scholars who had such records as to preclude promotion. But more important than this, the tone and spirit of the school are excellent; not only is the work done, but it is done with interest and enthusiasm. The influence of the teachers in this respect leaves little to be desired. They are all wholly devoted to their work; and now, having become familiar with the school and acquainted with the parents of their pupils, they are not likely to find any hindrance in the way of an even more prosperous year than the last.

TEACHERS.

GEO. A. MOORE, *Principal*, grades 8 and 9.
Miss CAMERON, *First Assistant*, grades 6 and 7.
Miss CHURCHILL, *Assistant*, grades 1 and 2.
Miss WETHERBEE, *Assistant*, grades 2 and 3.
Miss BLACKMAR, *Assistant*, grades 4 and 5.

In assigning classes to the three assistants the rule followed was to give the youngest pupils (the beginners) to the most experienced teacher. The rule, always a good one, has worked well in this instance.

Miss Cameron's class occupies the hall. Were she not to do so the four class-rooms would be overcrowded. But the hall is not a very comfortable place for a class, and there are other reasons against placing school-rooms in the third story of a building.

The time is not far off when additional accommodations will have to be made for the increasing number of school children in this district.

Respectfully submitted,

EDWIN P. SEAVER,
Subcommittee on the Hyde School.

NEWTON, Dec. 26, 1883.

PROSPECT SCHOOL.

TEACHERS.

WALTER C. FROST, *Master*.
Miss MARTHA L. PERKINS, *First Assistant*.
Miss ELLA F. CROOKER, *Assistant*.
Miss KATE P. RICHARDSON, *Assistant*.
Miss LIZZIE W. EVERETT, *Assistant*.
Mrs. MARY P. FANNING, *Assistant*.

We are gratified at the close of the year that this school has sustained its hitherto excellent standard,

both in its intellectual attainments, and its uniformly prosperous condition, although the retention of all the teachers of the previous year, with their well-known fidelity to their trusts, was a sufficient guarantee of that result. Mrs. Fanning still retains her well-deserved popularity in teaching the primary class.

Miss Everett taught the second class pleasantly and with success. Miss Richardson was teacher of the third and half of the fourth class, together with a number of older pupils who early in the year had become residents of this district, but who were not qualified to enter the higher grades where their age and size would have naturally placed them. Those who have visited this room on exhibition days will long remember the large amount of work that was done in the allotted time.

The balance of the fourth and the whole of the fifth class were taught by Miss Crooker in a very thorough and painstaking manner.

The sixth and seventh classes were taught by Miss Perkins, who has become distinguished in this school as a successful teacher for a series of years.

The eighth and ninth classes were under the charge of Mr. Frost, whose generous enthusiasm in his specific duties as teacher of these classes, and in his general duties as master, has contributed essentially towards the accomplishment of the valuable work that has been done throughout the school.

The ninth class has been unusually large, all the members of which received diplomas admitting them to the High School.

The graduating exercises in the hall were well attended, and a good amount of satisfaction with the school was expressed by a number of speakers.

During the summer vacation Miss Richardson accepted an advantageous position in the High School at Peabody by the inducement of a larger salary, and the opportunity to teach the higher branches of education, in which it is safe to predict that she will acquire distinction as a teacher.

In parting with her it is but just to speak of the esteem in which she has been held as a teacher and associate, and of the disappointment that she could no longer be retained.

The vacancy was filled by the election of Miss Mary A. Hayward, an experienced teacher, in whom reasonable expectations are likely to be realized.

The teaching of the older pupils in the room of the third class who had previously acquired strong bodies, was very successful, and it suggests to parents who have children of infirm health that there is not a necessity of sending them to school as young as is now practised.

Very extensive sanitary improvements were made in both houses during the summer vacation, which could have been delayed no longer without incurring great risk to the health of pupils and teachers. The improved system is now working very satisfactorily and is expected to meet all requirements of that kind for a long time to come.

JOHN A. GOULD.

LOWER FALLS DISTRICT.

HAMILTON SCHOOL.

The quiet uneventfulness of uninterrupted and prosperous work characterized this school the past year. The entire attendance was one hundred thirty-nine, an increase upon the previous season. The graduating class was the largest for many years, all fourteen of whom have entered the High School. Three keeping-rooms are occupied, with an average of thirty-five pupils each, while the fourth teacher hears her classes in a recitation-room. The no-recess plan has served so admirably here in the grammar department that it is desired for the primary classes also.

Mr. Leland's administration of this mastership, extending now over a period of more than twenty years, has given him the complete mastery of his work, so that both the school building and the district are constantly under his hand and eye. He keeps a school, and also keeps the children of his charge in the school. He sees to it that no part of the one hundred thousand dollars annually appropriated for the current expenses of the common schools of Newton which comes to his constituency shall fail of its purpose in respect to a single child of school age, by enforcing, when necessary, both upon pupils and parents, the provisions of the laws. This is something more than the mere keeping of a school, and nothing less than the practical assurance of a common-school education to the entire community. This is a work

plainly impossible to masters who come and go, but one best performed by him, other things being equal, the largest part of whose working years have been given to a single field. Fortunate is that locality where this broad and special supervision is faithfully and efficiently carried out. And that master accomplishes the highest achievement of his profession when he succeeds in inspiring his every pupil with the noble purpose of taking full advantage of his privileges in making himself a worthy, intelligent, and useful citizen of the Commonwealth.

If a word further upon this important matter as related to the city schools as a whole be allowable here, it may be said that the question as to how many children of school age there may be in Newton to-day who by somebody's fault are left out or kept out of the common schools, is one which our statistics, elaborate as they are, do not clearly answer; but that it is a question which manifestly demands an immediate and thorough investigation in any and every case where it has not been answered surely will not be denied by any one.

WILLIAM S. SMITH.

WILLIAMS SCHOOL.

After three years of successful mastership in this school, Mr. Chandler has entered upon his fourth season with the situation more fully in hand than ever before. At advantage in the good-will of his pupils, in the confidence of the community, and in official approbation, he has reason to anticipate with special satisfaction the new order of things in prospect.

The only change in the list of teachers from the

previous year was in the primary department, where Miss Ingraham rendered her first and a very acceptable year of service.

Too prominent to pass unnoticed among the excellent features of this school is the extraordinary proficiency in vocal music attained under the rare training of the first assistant, Miss Pinnock.

The very prompt and effectual correction of an inveterate case of truancy by an appeal to legal measures, suggests for service as a guide to teachers, and a warning to the unruly, the posting of a card containing all legal enactments bearing upon school discipline in some conspicuous place in each of our school buildings.

Want of room has been the great trouble with the Auburndale School of late, where packing has been pressed, not only to a very inconvenient, but also to a very perilous point, especially in the two upper rooms occupied by Miss Burbank and Miss Saltonstall. But by favor of a kind Providence, nothing worse came of it than a general detriment to school work. But, whatever the loss, it has thus come about that the absolute necessity of immediate provisions for better accommodations has been made apparent to all. And hence action has been taken which will make this year memorable as the end of an old and the beginning of a new order of things in this district. Of this action suffice it here to say that a work like the building of a schoolhouse, which in the ordinary course of things comes not oftener than once in a generation, is at least a formidable undertaking and seldom unattended with special difficulties, delays, and disagreements. But, whatever obstacles of this or of any other sort

may have been encountered, it is especially gratifying to be able to say they have all been surmounted, and the wise and liberal provisions which have been made for the Auburndale district are, to an unusual degree, satisfactory to all parties concerned.

WILLIAM S. SMITH.

WEST NEWTON DISTRICT.

PIERCE, DAVIS, AND FRANKLIN SCHOOLS.

The school history of our district for the year ending June, 1883, presents few features of special interest. The administration of skilled and faithful teachers has secured a steady and healthy progress in the various grades under their charge. The results achieved in each department of our three schools have given additional proof of the wisdom and efficiency of the school system of our city. Errors in theory and practice may, and probably do, still exist to some extent, but their elimination may be safely intrusted to accruing experience and intelligent supervision.

No serious interruption from sickness of either teachers or pupils has broken in upon our regular class work. Miss Calista S. Wood, of the Davis School, was granted leave of absence for the year for needed rest, and Miss A. Calista Hale, a graduate of the Worcester Normal School, was placed upon the Davis corps of teachers during her absence. Miss M. Alice Warren, who had been an assistant in the Pierce School, was appointed in place of Miss Mary J. Pickering, who resigned her position at the close of 1882.

The omission of the morning recess in some of our school grades, with the shortening of the session in accordance therewith, as authorized by the Board, has received the approval of both teachers and par-

ents, and is believed to be a desirable modification of our rules in that behalf.

Among the pleasant occurrences of the year was the graduation of an excellent class from the Pierce School, many of its members entering the High School, and others going directly into business occupations, in accordance with previous intention. In this connection we are happy to record the presentation to the Pierce School, by Mr. William E. Sheldon, of West Newton, of nearly one hundred volumes of educational works, which we trust may become the nucleus of a choice library for school reference and reading.

The regularity of attendance during the year, both in the grammar and primary grades, deserves special commendation. The few exceptions, smaller in ratio than in some years, were attended with the usual unfavorable results, as indicated by necessarily slow progress, failure in proficiency, and consequently in promotion, — evils which should receive prompt and earnest correction, both on the part of pupils and parents.

We have still to report an increasing attendance in nearly every grade, necessitating the employment of an assistant, Miss Jennie M. Daniels, in the primary department of the Davis School, and also an additional teacher, Miss Helen M. Tolman, for the Pierce School, from the commencement of the present school year. The large increase of children of school age in our district is rendering more and more apparent the pressing necessity for more ample accommodations, so earnestly desired and labored for during the year. It is hoped that the present and

prospective want in this behalf will receive early and favorable consideration.

Current experiences in our own, as well as in other districts, suggest various matters of local and general interest which require no discussion here. These will receive due consideration in the annual reports of the Board and of the Superintendent. Some of them find new emphasis in a review of the year's exhibit, showing that it is the employment of mind in *doing* school work which best educates and calls forth its powers, and that every day of actual work lost must tell upon the results attained, proving, moreover, that the habit of punctuality and regularity should be formed during school life. In this connection we have to say that our children apply themselves to many things during the nine years below their High School course, and we take pleasure in bearing testimony to the large measure of success and thoroughness that rewards the labors of both teachers and pupils.

JULIUS L. CLARKE,
Chairman.

NEWTONVILLE DISTRICT.

ADAMS SCHOOL.

TEACHERS.

WILLIAM A. SPINNEY, *Master*, teacher of grade 9.

Miss V. A. HARGOOD, *First Assistant*, teacher of grades 8 and 7.

Miss ABBIE I. FISKE, *Assistant*, teacher of grades 6 and 5.

Miss ESTELLA M. HAYNES, *Assistant*, teacher of grades 4 and 3.

Miss ANGELIA A. SMITH, *Assistant*, teacher of grades 2 and 1.

The teachers of the Adams School are to be commended for their efforts and their success. A good spirit pervades the school, such as is found in the minds of those who are conscious of success in the study for new knowledge, for a good method of learning, and for a right training of the faculties.

It is the aim of the teachers to lead their pupils into the possession of the highest end that school exercises are adapted to produce, the power of self-control.

More assistance is needed in teaching the pupils of the first and second grades in the school.

CLAFLIN SCHOOL.

TEACHERS.

HERBERT F. SYLVESTER, *Principal*, teacher of grade 8.

Miss LILLA T. WILDER, *First Assistant*, teacher of grades 7 and 6.

Miss MARY R. WARE, *Assistant*, teacher of grades 5 and 4.

Mrs. LIZZIE JONES, *Assistant*, teacher of grades 3 and 2.

Miss LYDIA A. BRIERLEY, *Assistant*, teacher of grade 1.

Mrs. E. F. Tucker, teacher of grade 1, resigned during the year, and her place was filled by Miss Brierley, who was transferred from the Adams School.

The school has been disturbed the past year by sickness, by a long vacation in term time for repairs to be made on the school building, and by overwork on the part of the teachers and pupils in attempting to accomplish a year's labor in much less than a year's time.

Both teachers and pupils have labored faithfully in their efforts to perform the tasks assigned.

The school building is now too small for the number of pupils in attendance. The attic rooms are not proper places for the children, and the rooms on the first and second floors are already over-crowded. The system of heating and of ventilation, partly constructed last winter, should be completed.

It is recommended that the course of studies now taught be so modified that the pupils, by having less ground to pass over, may do what is required of them in a more thorough manner.

Additional means of teaching are needed. More blackboards, a better supply of reference books and books for supplementary reading, and simple apparatus for the illustration of some of the elements of knowledge, should be provided.

The school now has a janitor of its own. It is expected that hereafter the school building and premises will be the objects of the undivided attention of one who will perform in a skilful manner the important duties of his office. The present plan of omitting the recesses is commended by the principal.

JACKSON SCHOOL.

TEACHERS.

- GEORGE G. EDWARDS, *Principal*, teacher of grades 8 and 7.
Miss H. AUGUSTA MILLARD, *First Assistant*, teacher of grades 8 and 7.
Miss GERTRUDE G. TEWKSBURY, *Assistant*, teacher of grades 6 and 5.
Mrs. LOUISE W. CLELLAND, *Assistant*, teacher of grades 4 and 3.
Miss ELIZA J. LOVELY, *Assistant*, teacher of first division of grade 2.
Mrs. ABBY J. CLARK, *Assistant*, teacher of second division of grade 2.
Miss LOTTIE E. STEARNS, *Assistant*, teacher of grade 1, in the Athenæum.

It would be better for the school if all the grades belonging to it were collected into one building, and placed under the immediate supervision of the principal. If this were done, the different grades would more evidently form a part of one whole, and the work done in them would approach nearer to unity. This school is an important one, and deserves the special attention of those who have its management intrusted to their care.

The teachers have proved themselves to be efficient and faithful. They endeavor not only to teach in a thorough manner the various branches of study enumerated in the course of instruction made out for the school, but they also endeavor with equal care to train their pupils in the principles and practice of good conduct. It should be the policy of the Committee to keep the teachers steadily in their places,

for a successful experience is invaluable to a teacher of the public schools.

It is expected that those who have charge of the public schools will not forget that good schools cannot exist without well-trained teachers to teach them; that the course of studies pursued in the schools will determine the kind of knowledge the children will obtain; that the methods of teaching practised will give character to the quality of knowledge acquired, and to the mental training which the process of acquiring the knowledge will produce; that the best text-books can be selected by those only who use them; that a good schoolhouse is the product of an intelligent experience; and that a perfect attendance upon the schools is the result of constant attention on the part of teachers, school authorities, and the people themselves.

J. W. DICKINSON,

Chairman.

NEWTON DISTRICT.

As a whole, the condition of the schools in this district has been very satisfactory.

The attendance has increased, so that before long it will be necessary to have a class and teacher in the unoccupied room of the Bigelow Schoolhouse.

BIGELOW SCHOOL.

There have been three changes in the corps of teachers in this school. One of them, in the seventh class, was very unfortunate.

Near the beginning of the school year Mrs. Bakeman tendered her resignation on the ground of ill-health. Substitutes were employed for some time, but no one was found to fill the place. After a time Mrs. Bakeman's health so far improved that she felt able to again offer her services to the district committee, and they gladly put her back in the place which she had so long and so well filled.

Early in the spring Miss Eudora Sanford felt obliged, by the state of her health, to resign the position of head assistant, and Miss George was appointed in her place. Miss Sanford had been a teacher in this school for some years, and had always been conscientious, painstaking, and hard working.

At the end of the school year Miss Locke resigned her place in the fourth class to fit for Smith College.

The other teachers in this school still deserve the good opinion which your Committee and this community have of them.

UNDERWOOD SCHOOL AND LINCOLN SCHOOL.

These schools are in a very good state. The Underwood School has been so full that it has been again necessary to employ a temporary assistant, and the Lincoln School fuller than for some years.

It would be well to take some children from the North Village, which is so over-crowded, and put them in the Lincoln School, giving Miss Wilmarth an assistant. With forty children or thereabouts, it is rather hard to do the work in the three grades that she has without any assistance.

For the Committee Newton District,

LINCOLN R. STONE,
Chairman.

EVENING SCHOOL.

THE Committee on the Evening School report that a school for instruction in elementary English branches and book-keeping was held three evenings each week, from November, 1882, to February, 1883, in the Lincoln Schoolhouse, on Pearl Street.

The school was under the charge of Mr. L. F. Warren and the following assistants: Emma B. Wilkins, M. Alice Warren, Nellie B. Rand, Nellie P. Warren, Nellie M. Hart, Fannie A. Brackett, Charlotte M. Wilkins.

Number of evenings school open . . .	40
The number of pupils enrolled was . . .	100
The average attendance was . . .	50
The largest attendance was . . .	90

The plan of the school and its success were as in former years. (Signed)

G. W. SHINN.
C. H. STONE.
L. R. STONE.

MUSIC.

THE Committee on Music, in submitting the report called for at this time, beg to be excused from giving anything but this short statement of the condition of music in the schools.

In the lower grades in some if not in all the schools there has been good work done and some improvement shown.

The special instructor in music, Mr. Roberts, however, has hardly had a fair opportunity to show the value of his methods, on account of a long and severe illness the earlier part of the school year.

We bespeak for him a candid, patient, and longer trial.

For the Committee,

L. R. STONE,

Chairman.

NEWTON, MASS., Oct. 24.

INDUSTRIAL DRAWING.

THE evening class in mechanical drawing, established during the preceding school year at the Prospect Schoolhouse in Ward 5, was continued last winter, opening Dec. 12, and closing March 29.

The pupils being for the larger part the same that attended the class the winter before, a second year's course of instruction, more advanced and supplementary to the first year's course, was pursued; and the class system of instruction was adopted to a greater extent in place of individual instruction. The teacher, Mr. H. N. Mudge, and the pupils expressed themselves as being well pleased with the kind and quality of the work done during the term. The attendance was not as large as it should have been, the total number of pupils at any time during the term being twenty-eight, against forty-three at the previous term. The average attendance the first month was nineteen, and for the term but thirteen.

Unusual social attractions in the village during the entire winter kept many persons from attending the school who were presumed to have an interest in its continuance.

The fact is again evident that the population of our city is unfavorably located for the best success of a

school of this character, as no section has yet furnished a sufficient number of pupils for a sufficient length of time, and other villages are too distant to draw from, therefore the Committee do not recommend the opening of another drawing school at present, or until the want of one is made manifest to the School Board.

J. A. GOULD,
for the Committee.

SEWING.

THE experience of the Sewing Committee during the past few weeks of school has served to confirm them in the opinion that no mistake was made when it was decided to introduce instruction in sewing into our public schools. The long-felt need of something more practical in our system of education seems to be in part met, and the hope is confidently cherished that this branch of study will soon take the rank it so justly deserves.

The time which has been given to sewing as yet is too short for us to be able to speak of results. There are many encouraging indications. It is only by visiting the class-room during the sewing hour that one can form a correct estimate of the quality and variety of work done.

The sewing teachers are earnest and conscientious workers, not easily discouraged, though the work increases in magnitude. They sometimes feel that the best results are not obtained, because the work supplied to the children is that which is most convenient and not that which is most suitable. If the work provided is beyond the child's capacity, progress is hindered and time wasted. We see no remedy for this till parents realize the fact, and are as anxious

for their children's advancement in sewing as in any other branch of school work. This will be a great gain, which will be perceived in more satisfactory results.

The Committee have scarcely been prepared for the genuine and hearty co-operation which has been shown by a large number of the regular teachers. The cheerfulness with which most of them have laid aside the regular work of the class-room, and the readiness with which they have given their own hands to the work, laying down pen and pencil and taking up the needle, have been exceedingly gratifying to the Committee. Combined with this readiness to help is a feeling of responsibility in regard to success.

The almost universal testimony of the children is in favor of sewing. The order, neatness, and industry of the school-room during the sewing hour are scarcely less perfect than at other hours. While there is room for improvement, your Committee are reasonably satisfied with the work of the past seven weeks.

The rules adopted for the regulation of this department of instruction are herewith submitted.*

MISS A. A. SMEAD.

* See Superintendent's Report, pp. 71-73.

SUPERINTENDENT'S REPORT.

*To His Honor the Mayor,
and the Honorable Board of School Committee of Newton:*

LADIES AND GENTLEMEN, — The closing of the school year makes it my pleasant duty to take a general survey of the educational field and formally to report the result. I do so with the greater pleasure since, despite some untimely interruptions, it bears evidence of characteristic thrift. With our antecedents, the absence of any violent change or upheaval is perhaps the best evidence of prosperity; for of schools it may be said as it has been said of nations, "Happy they which have no history!" The best work in the school-room cannot be reported. The quiet routine, with its thousand little details and its ten thousand subtle phases, where mind reflects mind, and heart touches heart, defies the nimblest pen; nor would a minute description of processes or a mere recital of every-day facts furnish either entertainment or instruction. At a period when education has come to be recognized as a science and many of its principles find ready acceptance, much that is vital to school interests may be safely assumed, while the attention is directed to those more salient features which mark the trend of doubtful theories. If I rightly apprehend the duties of your executive officer, not the least important is carefully to watch and

faithfully to report tendencies in method and in work, and to secure if possible the best conditions for reaping the fruits of practical skill. Therefore, in whatever particular this report may fail "in reviewing the work of the schools," it is hoped that it may not fail in properly estimating the importance of those movements whose issues are to determine the soundness of our theories and the value of our methods.

STATISTICS.

The statistical summary hereto appended will furnish the usual items to those interested. The school census of persons in the city between the ages of five and fifteen years on the first day of May, 1883, shows a total of 3,564 against 3,458 last year, a gain of 106, which is shared by every ward except the *fourth*, *fifth*, and *seventh*, in which there is a loss of 8, 10, and 1, respectively; while the average whole number in the schools shows nearly a corresponding increase.

It is gratifying to call attention to the improvement in attendance. An increase of more than one per cent for the year indicates a movement in the right direction, and betokens an amount of effort on the part of teachers which can be appreciated only by those who know the obstacles encountered. The reports of the High School, incorporated in this summary, exhibit in this particular an apparent falling off from the record of the preceding year. This is due to the fact that hitherto the attendance of special students has not been recorded, or rather has been assumed to be uniform and regular, — a practice which, making a more favorable showing than truth

would justify, has been corrected. The law of decline, however, in the character of attendance through the several months, which has prevailed in this department for a series of years, continues to operate with unabated force, reducing the percentage from 95.6 in September to 88 in June,—an evil which cannot fail to impair the efficiency of your most liberal provisions.

The careful reports of the various subcommittees render it unnecessary to speak of the High School in detail; its crowded condition, however, is a reminder that at no distant period the question of increased accommodations will force itself upon your attention. The total enrollment for the first month of the school year just opened is 330, while the average whole number is such as to tax the present building to its utmost capacity; nor would the exclusion of all non-resident pupils relieve the pressure to any appreciable degree. A comparison of the relative size of the several classes shows that, of those who enter, the number rapidly diminishes at the close of the first year, amounting often to twenty-five per cent or more. Of those who fall out, many come with no expectation of completing the course, but to supplement the work of the grammar school by a few months in a higher grade. It is also reasonable to conclude that no inconsiderable number living remote from the High School, on leaving the grammar schools desire to avail themselves of the same privilege, but are deterred by the difficulty and expense involved, and so terminate their school life. It may be well to consider whether, in view of the peculiar local relations of our school population to the High School, the wants

of the class referred to may not be adequately provided for in some sections by a post-graduate course in the grammar schools, and thus relieve the pressure in the High School without detriment to its regular classes.

I venture another suggestion in the same connection. The apparatus for illustrating physical science is entirely inadequate to the demands of that department. Some articles are old and worn, some are superseded by improved patterns, and in many cases progress in science and in this line of manufacture has developed new contrivances, which we have never had. The liberal policy which has ever characterized your Board in providing for the schools will not suffer so important an interest to occupy a rear rank. But it is mere waste to provide costly apparatus and fail to provide suitable means for its care and preservation. Every article, every map and globe, especially those in relief, a choice and rare collection of which is now the property of the High School, should have its place secure from accident and needless wear, and be restored to its place when not in actual use. These helps are in hands most competent for their care and their use, and it is safe to recommend *first*, more careful provision for safe keeping, and *second*, a small annual appropriation to be expended from time to time for articles most needed, until our facilities for illustration are commensurate with the reasonably large expectation of results.

COURSE OF STUDY.

Early in my official service the course of study in the primary and grammar schools became the subject

of deliberate and careful consideration. The last printed form, bearing date 1880, while possessing some excellent features, had never represented the actual work of the schools. It seemed to lack the definiteness of outline necessary to secure in the work of the several grades that degree of harmony and uniformity which was essential. The natural result was a wide diversity of practice, tending to destroy the unity of the system. The first step towards a correction of the evil was, by a series of teachers' meetings, to discover the degree of divergence in the several lines of work; next by the apportionment of the several departments among the masters and principals to block out and commit to writing a course for each study in each grade representing as nearly as possible the higher average possibilities in the various schools and embodying the best results in the experience of our most successful teachers. The work had been carried to this point at the opening of the last school year. The third and last step which has since been in progress is by the practical test of actual use to so modify and fill up this outline as to make it a reflex of the work accomplished where conditions are favorable. This line of procedure has been adopted in the belief that no course of study arbitrarily marked out, however wisely conceived or skillfully formulated, can meet the varying wants of all. It must grow and so take shape amid diverse interests and tastes as to seem the development of each while in fact the joint product of all.

ARITHMETIC.

In my second quarterly report, presented in March, 1882, referring to arithmetic, I was constrained to use the following language : —

“In view of the prominence which is given to this study, it is a significant and startling fact that so much is said, and justly too, of the incapacity of the youth in our public schools, and even graduated from them, to deal with the practical problems which present themselves in every-day life. It becomes more embarrassing when a comparison is instituted between the product of our schools twenty-five or thirty years ago and that of to-day, with the verdict unqualifiedly in favor of the old methods. It may be more comforting, but not a whit more satisfactory, when we are led to feel that this state of things is not confined to one city or one state or one section, but that, for a score of years, there has been a deterioration in the rank and file of American youth in our public schools, both East and West, in their ability to handle intelligently, promptly, and correctly practical questions involving number and quantity. Another significant fact is, that most who have the supervision of instruction or teach in the higher grades have long felt and deplored this state of things; but most significant of all is the fact that teachers in the lower grades are consciously embarrassed by the weakness of their pupils in mathematical reasoning. It is to be expected that teachers who receive pupils to the higher grades would readily detect any failure to strengthen the mind by proper training in the rudiments, but that this lack

should be felt and lamented by the lower-grade teachers themselves, as is the case in Newton, is no less creditable to the teachers than indicative of a fault of long standing in the system.

The practical question is, 'What has caused the present condition and what is the remedy?' I feel no hesitation in expressing it as my opinion, reached not hastily and not without considerable opportunity for observing, that our present unsatisfactory results are chiefly due to the ill repute into which mental arithmetic has fallen; and, however justifiable may have been the action in discarding much that was good to rid ourselves of admitted abuses, the only rational remedy lies in the reinstatement of mental arithmetic as a staple exercise in all grades of our primary and grammar schools, and in giving it such prominence as will force pupils in arithmetic to learn to reason. It does not seem advisable or necessary to introduce, at this stage, a special text-book, but much may be done with the books on our list or readily accessible by teachers to stimulate activity in that direction."

The view thus presented was promptly indorsed by your Board in the supply of such aids as seemed needful, and the result is already manifest in the improved quality of our work. There may be danger of expecting too much until the mental fibre has gained strength and toughness by habitual exercise, but there is the opposite danger, — and, in the present reaction from Puritanic austerity, one of the most threatening, — of trying to nourish a healthy growing intellect on too diluted aliment. Nothing is so grateful to the young, rejoicing in the possession of new-found resources, as

the discovery of a new power. The bounding physical life is not content with the tame service of practical utility; the waste of its energy is the natural food of its exuberance. So, in intellectual training, a too rigid adherence to the severely practical may fail to call into play and so dwarf many a power whose development is essential to mental symmetry. Childhood eagerly grapples with difficulties within its power of mastery, and this desire must be fed and strengthened or there is, at best, but a sickly growth. The opinion is gaining currency in educational circles that the range of topics in arithmetic is far too wide for the time allowed in our grammar schools; if so, it justifies the hope of realizing, through reform, a more thorough understanding of its essential principles; but, be that as it may, the interests of a comprehensive system no less than the exigencies of practical life demand a more intelligent facility in handling its ever-varying problems.

DRAWING.

The department of drawing has continued under the efficient management of Mrs. Emma F. Bowler, who has still further developed and matured the plan referred to in the report of the Special Committee presented last year. Previous to the organization for another year, however, Mrs. Bowler's resignation was presented and accepted, much to the regret of those familiar with her long and successful labors in behalf of the schools. It only falls within the scope of this survey to advert to the *status* of the department as found by her successor, Miss Adeline V. Pond, and presented in the following: —

REPORT.

The facts of the following report have been obtained in part from the regular teachers of the primary and grammar classes, in part from the special teacher who preceded me, and in part from my own observations.

PRIMARY SCHOOLS.

Simple instruction has been given in forms and their names, in memory drawing, dictation drawing, and design. Considerable time has been devoted to ruling and measuring as features of industrial art education, a foot-rule being put into the hands of each pupil. This foot rule, however, has been found too cumbersome for the small fingers, and for the present will be generally set aside; it will be occasionally used to keep the child in mind of the common division into inches.

In grades 1 and 2 the work has been almost wholly slate work, and will continue so to be. In class, the work has been either upon slates or upon paper, or upon both, according to the grading of the pupils.

GRAMMAR SCHOOLS.

In the grammar classes, suitably graded instruction has been given in the following subjects: —

1. Freehand drawing.
2. Geometrical drawing.
3. Model drawing.
4. Memory drawing.
5. Dictation drawing.
6. Design drawing.

1. Excellent work has been done in making bold, broad copies of good subjects.

2. A good degree of attention has been paid to geometrical work. The object has been to give the pupil not only practice in the use of instruments but also general skill and accuracy.

6. I am informed by the special teacher who preceded me that in certain grades the feature of design has been somewhat neglected. This subject I regard as an important one, not because of the practical knowledge of decoration it may give a child, but rather because of its general educational value. The subject of design, properly taught, compels pupils to construct, to arrange, to analyze, to remodel; to draw with brains, — not graphite.

More attention than formerly will be given to the subject of working drawings. It is needless to say that the times demand a practical industrial art education.

If, in the change from blank books to text books, there may be a loss of breadth and boldness in freehand copying, it is hoped that this loss will be more than counterbalanced by a gain in the practical value of the things taught.

In the grammar grades, the pupils' work is chiefly in drawing books; but in these grades, as in all others, the use of the black-board is to be encouraged.

HIGH SCHOOL.

During the past year the programme was as follows:—

Fourth Class.

Model drawing; parallel perspective; design; historic ornament.

Third Class.

Charcoal shading; angular perspective; design; historic ornament.

Second Class.

Modelling [in clay; oblique perspective; harmony of color; wash drawing; design.

First Class.

Twelve third-grade certificate drawings; a *résumé* of the three years' work.

During the present year, suitably graded [instruction in simple projections will be given; but the programme will remain materially unchanged.

In closing, permit me to speak gratefully of the strong interest Newton's teachers and pupils manifest in the study of drawing, — a study that every educator regards as of greatest value, not for itself alone, but for "its effects and manifold results."

Respectfully submitted by

ADELINE V. POND,
Special Teacher in Drawing.

AUBURNDALÉ, Oct. 15, 1883.

MANUAL TRAINING.

The growing demand for more of the practical element in public instruction has found recognition during the past year by the adoption of a scheme for the introduction of sewing, which is sufficiently set forth by the following circular issued by the committee on that department: —

SEWING IN THE PUBLIC SCHOOLS.

The attention of parents is called to the fact that at the beginning of the next school year, September, 1883, sewing will be introduced as part of the regular course of instruction for girls in the fourth, fifth, sixth, and other grades in the public schools of the city of Newton.

The authority for its introduction is found in the State law of 1876, which runs as follows: —

“Sewing shall be taught in any city or town in all the public schools in which the school committee of such city or town shall deem it expedient.”

By vote of the School Committee of Newton in 1882, instruction in sewing has been deemed expedient, a Standing Committee of the Board on Sewing has been appointed, and two teachers of sewing, Mrs. E. L. Bond, of Newton Centre, and Miss J. Grant, of Newton, have been elected.

The Committee on Sewing have arranged the following schedule of hours for instruction in the different schools: —

Bigelow, 10.30 A. M. and 2 P. M., Mondays and Thursdays.

Adams, 9 A. M. Mondays and Thursdays.

Clafin, 10.30 A. M. Mondays and Thursdays.

Franklin, 9 A. M. Mondays and Thursdays.

Jackson, 9 A. M. Tuesdays and Fridays.

Pierce, 9 A. M. Tuesdays and Fridays.

Davis, 10.30 A. M. Tuesdays and Fridays.

Williams, 2 P. M. Tuesdays and Fridays.

Prospect, 2 P. M., Tuesdays and Fridays.

Hyde, 2 P. M. Mondays and 9 A. M. Wednesdays.

Hamilton, 2 P. M. Wednesdays.

Mason, 3 P. M. Mondays, 10.30 A. M., 2 P. M. Wednesdays, 2 P. M. Thursdays.

The committee have adopted the following regulations for the department of sewing in the public schools : —

1. Two lessons per week shall be given to each member of a sewing class. A sewing class shall be composed of one or more grades of the grammar-school girls. The number of members of a class shall be regulated by the committee from time to time. These lessons in sewing shall not be encroached upon by other school work without consent of the Sewing Committee.

2. The regular teacher of the grade, or in case two or more grades are united, one of the regular teachers shall have charge of the discipline of the class, shall see that the work is distributed promptly at the beginning of the sewing hour, shall assist in keeping each scholar diligently occupied, and shall keep a record of the marks received by each scholar for proficiency and diligence.

3. The parents are requested to provide material for their children to work upon, and, as far as possible, to cut and baste the garments at home ; but, in any case where it is not so provided, the sewing teacher will be expected to have work on hand to supply this need, that there may be no excuse for an unoccupied hour, and that time may not be wasted in sending home for work.

4. Each scholar shall come provided with needle, thread, and thimble.

5. The sewing teacher shall make all preparation for the instruction before the sewing hour, so that she may give her whole attention during that hour to the oversight and direction of the scholars.

Any fitting that requires time should be laid aside to be attended to out of the sewing hour, and other work supplied in its place.

6. The sewing teacher shall provide that each girl shall thoroughly learn the different varieties of work, and shall promote her from one kind to another as rapidly as she is able to advance from the simpler kinds to those more difficult, passing from plain sewing to mending, darning, fine stitching, button-hole making, and other difficult work.

7. With the consent of the committee, the sewing teacher may receive charitable work from individuals or societies, to be made

up by the children when not furnished with proper work from home ; and these garments, when finished, shall be returned to the individual or society supplying them.

8. No scholar shall take a piece of work home until it has been finished and approved by the sewing teacher.

9. At the discretion of the committee there may be an exhibition of the pupils' work once each year, to which parents and friends may be invited

10. The sewing teacher shall keep a record of the garments finished and shall report to the committee every quarter the general condition of the sewing in each school.

A. AMELIA SMEAD,	} <i>Committee.</i>
EMILY W. HYDE,	
G. W. SHINN.	

It will be observed that the above plan has reference to girls only; meanwhile, "What shall be done with the boys?" is a problem, and one which clamors for immediate solution. To make the project symmetrical and perfectly adapted to mixed schools, as all in our system are, the occupation should be manual or industrial, and it should be of like special interest to boys as sewing is to girls. The first and most natural suggestion is a practical acquaintance with tools and the materials upon which tools are used. Whatever may be the sphere of a boy's activity, he will constantly encounter the hard facts involved in the laws which govern wood and iron and stone, and a limited acquaintance with these laws is at once a source of interest and means of culture, and cannot fail to be serviceable in active life. The practical difficulty is one of mode and extent. While it may not be wise or practicable to train in the rudiments of any handicraft, there are facts to learn and points to gain in the material realm which will render

any boy wiser, stronger, and more useful. Every substance wrought into objects of use or beauty, with quality, change, and combination; every implement which fashions or adorns, its structure, adaptations, and uses; every process of production or manufacture, with its reasons, its history, and its development,—will furnish matter for practical instruction most acceptable to the inquisitive nature of a boy, and whose extent and variety are adequate to every capacity and every taste.

A popular error concerning this industrial feature is that its end is merely to furnish a resource to those who need it. However important this may be, it would hardly justify its general introduction, except as optional. But this narrow view fails to apprehend one of its chief claims to a place in the course of elementary instruction,—its value as an educational appliance. There is the deftness of touch, the skill of manipulation, the want of which is so often felt in ordinary school work; the natural wish of the pupil to be useful in a practical way, to do something or make something which shall be of intrinsic value; the latent desire to render a service *to* some one, to relieve want, or minister to necessities; there is the apathy which comes of inability to see the *use* of all this brain work and the alienation begotten by a suspicion that teachers have little interest in anything outside of books; there is the discouragement which settles like a pall upon young spirits at the discovery and reluctant acknowledgment, even to self, of mental inferiority; there is also the glimpse of the essential unity and dignity of all human endeavor for worthy ends, with the sympathy and charity which it begets,

—all these things and more are suggested at sight of a class striving, under kindly guidance, for proficiency in a line of effort which soothes nerve and spirit and goes far to compensate for those inequalities which are developed on a purely intellectual plane.

But want of time is urged as an objection to the introduction of any addition to an already overcrowded programme. The requirements for grade and department are not absolute, but shift with every modification of plan or theory. If manual training is entitled to attention in the public schools, it has its place and time, and it remains for those whose business it is to discover what has usurped its place and is occupying its time. It is to be remembered, however, that the allotment of a certain portion of time to manual industry does not necessarily imply the reduction of brain work in a corresponding ratio. Success in manual occupation involves mental training, and progress in study is determined by the nature of conditions as well as by the element of time. Unless there is such an adjustment of physical to mental exercise, of relaxation to labor, as to render every power most vigorous and elastic, there is waste somewhere, and increase of work even, with change, may repair the waste. Indeed it is claimed, by those whose experience qualifies them to judge, that the loss to regular work, in time, is fully compensated by the awakened energy and increase of intelligent interest which attend the introduction of this feature. But there is no occasion for speculation; it has already entered upon a stage of experiment in our schools and awaits the verdict of the future.

NO RECESS.

In accordance with a general desire which found expression in numerous requests from every quarter, your Board passed an order at the regular meeting in February to suspend, for one month, the regulation fixing the forenoon recess and hour of dismissal in the grammar grades, for the purpose of testing the plan of abolishing the general recess and dismissing, at 11.30 instead of 12 o'clock. The experiment has found such general favor and there has been such manifest unwillingness to return to the old arrangement, that your action has been repeated from month to month during the remainder of the year.

The change is an important one, and, in view of the time-honored custom which it displaces, little short of revolutionary; your cautious procedure, therefore, is wise and well timed. Elsewhere the innovation is violently assailed and as valiantly defended.

The chief considerations adduced in its favor are, *first*, those bearing upon the pupil; unbroken study hours and more time out of school, freedom from outdoor exposure, rough play and bodily injury, protection from vulgar associates and moral contamination; *second*, those bearing upon home convenience; the half-hour before noon, enabling children of laborers to carry dinners without encroaching upon school time, an increase of interval between sessions, making the services of children available at home, to the relief of parents; *third*, those bearing upon the school; relief from the confusion, distraction, and loss of time incident to recess, diminution of occa-

sions for discipline, improvement in attendance and punctuality.

Over against these are the denunciations of opponents, who claim that children are robbed of needed recreation, and that the disregard of physical laws involved in a protracted session will result in life-long weakness and suffering.

As usual in heated controversies, the truth lies somewhere between the two extremes. Some of the objections to a general recess are entitled to little consideration. The claim that good manners and pure morals are incompatible with the promiscuous association during school hours, if pressed to its logical issue, would abolish public schools altogether. The cloister theory has had its day; the nineteenth century is too far gone for its revival, and least of all can it flourish in a republic. Dangers there are and must be in the free intercourse of all classes, but greater dangers in their separation. If children cannot associate with reasonable safety amid all the checks and safeguards of a public school, it is difficult to see where such association can commence without peril.

The extreme views of the advocates of the general recess, also, seem hardly justifiable in the light of facts. If a continuous session of two and a half hours involved such a ruthless violation of natural laws as is claimed, we should probably detect some signs of it in the increased number of individual recesses, especially when the public mind is on the alert for criticism and special pains are taken in school to interpose no obstacles. The fact is, however, that, where pupils have had time to adjust their habits to the change,

the applications for individual recesses are little if any more frequent than before.

Furthermore, a continuous session of two and a quarter hours is no new thing; it has existed in some sections for years without eliciting a murmur of dissatisfaction; and with us the afternoon session of two hours has long been unbroken, except in the primary grades. It is incredible that an addition of fifteen minutes should be fraught with such disastrous consequences; and yet, if we have reached the utmost limit of safety, it may be so, in which case it is wise to consider whether such close proximity to the danger point in a matter involving the health of the rising generation is in any wise justifiable.

The experiment of the last half-year, rendered more valuable by careful observations and statistics taken in the various schools and embodied in reports which represented, at once, the sentiments of parents, teachers, and pupils,—an experiment pursued with extreme caution in the light of what has been said and written upon the subject,—has led to the following conclusions:—

First. The abolition of the general recess greatly simplifies the work of administration, allowing more concentration of time and effort, avoiding accident and exposure, and diminishing friction and collisions, with their resulting complications.

Second. The aggregate of work accomplished is not materially affected with or without recess.

Third. The reduction of school time to a minimum has a tendency to accommodate its work to the multiplied demands which, in modern life, are made upon the time of the child, and naturally results in a desire

to lose nothing by absence, tardiness, or dismissal, while it encourages diligence and promotes intensity of application.

Fourth. It is entirely practicable to induce, in pupils, a cheerful conformity to the changed order of things, and that, too, without any apparent violence to the muscular, nervous, or secretory functions; but —

Fifth. Present immunity from inconvenience does not prove a course to be wise or safe. If two and a half hours in the school-room is not too long a period of continuous subjection to its necessary restraints for an average healthy child, the plan may be an improvement and become a permanent feature in our schools; if such a period of abstinence is inconsistent with the demands of the physical economy, no amount of eloquent advocacy and no act of authority can save it from merited condemnation. It is a question for the medical profession.

DISCIPLINE.

The question of discipline in our schools is fortunately a simple one. The excellent home training of most children, the firm yet conciliatory policy of your Board, the skillful focusing of activity upon the legitimate work of the school-room, all tend to forestall unpleasant issues, and pupils thus beguiled into a forgetfulness of laws and their occasion are far better governed than by feeling the force of them, however wise or efficient. But this grateful quiescence of laws can be perpetuated not by ignoring but by strengthening and perfecting them, for Newton, even, has its *modicum* of extreme perversity, which must be provided for by a scheme of appliances com-

plete in every appointment, otherwise the leaven of lawlessness will spread like a contagion.

In the last revision of the regulations for the public schools, adopted Aug. 23, 1882, Chap. II., Sect. 4, reads as follows:—

“Teachers shall aim to practise such discipline as would be exercised by a kind, judicious parent in his family, avoiding all indiscreet haste, and resorting to corporal punishment only in extreme cases. They shall keep a record of all cases of corporal punishment, specifying in each the pupil's name and age, the date and nature of the offence, the date, mode, and severity of punishment, and report the same each month to the Superintendent.

The ordinary mode of discipline for violations of rules, disobedience, disrespect, disorderly conduct, neglected lessons, truancy, etc., after due effort on the part of the teacher, shall be reference to the master or principal, a written report to parent or guardian, or temporary suspension from school privileges, as the case may require.

The master or principal alone shall have authority to suspend a pupil; and a written notice stating the cause shall be immediately sent to the parent or guardian, to the Superintendent, and to the District Committee. The period of suspension, and the conditions on which a pupil may be restored to his place, shall be determined by the Superintendent, subject to the approval of the District Committee. The District Committee shall have power to continue the suspension, and the Board may finally expel the pupil. A pupil so expelled shall not again be admitted to any school in Newton without a majority vote of the whole Board.”

To a casual reader, the phraseology differs little from the original form; two changes, however, deserve notice, — *first*, the provision that “detention after school hours shall be an ordinary mode of punishment” is omitted; *second*, the coupling of suspension with the “commission of crime, etc., when reformation appears hopeless,” is radically changed.

The adoption of the spirit of these changes is working silently but surely a revolution in the discipline of our schools. The assumption which recognizes “detention after school hours” as an “ordinary mode of punishment” is mischievous in the extreme. It is that the school-room is a place of duress, and its work odious. With some this may be too sadly true, and therefore the best possible reason for not employing either as a punishment. It is that the teacher is not only bound to exact obedience to authority but is personally responsible for the pupil's shortcomings, and bound to make amends for the consequences of neglect or disobedience, — an assumption as unjust to the teacher as it is harmful to the pupil. It robs one of the best energy, that which draws upon the resources of a succeeding day, and the other of the best motive, a sense of personal responsibility; nor is the robbery any less robbery because neither resists. This unseasonable work and imprisonment may avail in scoring something to the credit of the reluctant victim, but the cost is appalling to the disgusted pupil, to the weary and depressed teacher, and to the defrauded school. Parents and pupils are alike entitled to a teacher's very best service, but no teacher jaded by these works of supererogation can render the best service;

therefore the first care should be to come to the work of each day with a light heart and an elastic step, for the power to quicken and inspire only resides in fullness of life and spirit. The aggregate of accomplishment in school is undoubtedly greatest when the work of each day is resumed where it was left at four o'clock on the day preceding, — not perhaps in the number of problems solved, or sentences framed, or pages memorized, but in utilizing those forces which strengthen mind and build character.

The evil here cited, thanks to the amendment referred to, is rapidly becoming a thing of the past. Some still cling to it with a tenacity which is far more creditable to their spirit of self-sacrifice than to their discretion; but it is confidently hoped that at no distant day our teachers will, without exception, count it the best service to their charge and the highest act of loyalty to their patrons to turn their backs upon the school-room without delay when the programme is concluded.

The second noticeable change in the regulations consists in discarding the theory that suspension is a provision for criminal and incorrigible offenders, — a defensive measure only, — and in substituting therefor the equally safe but far more humane theory that suspension is merely a stage in the course of discipline, foreshadowing, it is true, the ultimate consequences of disloyalty, but gently applying to the offender the constraints of a beneficent law, inviting reform, and not ruthlessly treating him as an outcast.

The law that habitual neglect or abuse brings deprivation is so comprehensive and so just that there is no reason why it should not form the substratum

of school discipline. Thus applied and rightly administered, it is enforced only so far as the interest of the school demands,—an interest which is always paramount to that of the individual. But it is objected that children are dependent and irresponsible. True and untrue! If it is held that the intervention of authority is to absolve the child from the effects of indifference or wrong doing, it is an assault upon the very foundations of character. If it is held that the child in his immaturity does not alone represent the interests of his class, it is true, and the objection is met by introducing the parent or guardian as a factor in the problem. The State provides that every child within its jurisdiction shall receive proper school training; in pursuance thereof, schools are established and instruction furnished for all. If these provisions are so neglected or abused that some forfeit and fail to enjoy their benefits, it is an offence not so much against the school as against the State; and any attempt by the school to usurp the functions of the State not only must result in failure but will react most disastrously upon itself. No child and no representative of the child can claim at the hands of a teacher the benefits of school training for an unwilling subject; and the sooner this principle is recognized the sooner shall we be rid of those clogs which, more than any other one cause, impede our progress, and the sooner will be swept into oblivion those appliances for torture, under whatever name, which to many minds make "public school" a synonym for legalized cruelty.

It is further objected that this doctrine would paralyze all effort to stimulate to right action and to

reclaim from error. The best service is not bestowed under the stress of a contract, but is lavished where need requires, in obedience to a far higher principle. A teacher who is prompted to extraordinary effort in behalf of a wayward pupil will not relax such effort while there is hope of success, nor in such case would any but self-prompted endeavor be worth the bestowal. The more purely gratuitous the service for such an end, the higher its virtue and the greater reason to hope that it will be efficacious. It is not the labor which kills, but that crushing incubus of anxiety lest the utmost exertion fail to counteract the effects of perversity or willful neglect. As detention after school hours is the inevitable sequel of an attempt to develop an unwilling mind, so the rod is a fitting symbol of enforced rectitude, impotent both to secure aught but the most perfunctory eye service. It is one thing to govern; it is another and far nobler thing to govern by right means.

During the past year there has been no abatement of effort in behalf of the pupil, much less any concession as touching the standard of requirement; but the result is suggestive. The number of cases of corporal punishment reported from all the schools in the city is *one hundred seventy-seven* against *four hundred forty-six* for the preceding year, — a reduction of more than *sixty per cent.* There have been *thirty-six* cases of suspension, in three fourths of which the suspended pupils have been restored on application of parents or guardians. Of the remaining fourth for which no such application was made, some left the city, some were put to work, and some are not accounted for. The effect of these suspensions,

fourteen of which were for general misconduct and twenty-two for unexcused absence and truancy, was uniformly salutary upon the schools, and in most cases was such as to work a reformation more or less thorough in the offenders.

TRUANCY.

The evil of truancy, while very limited in extent, calls for special attention. It chiefly prevails where there is least to expect from home discipline, is most demoralizing in its effect, and its negative character — sure index of infirmity of purpose — makes it very hard to correct. In most cases hitherto, suspension has been adequate; but it is too much to expect that there will be no exceptions, therefore the facilities for dealing with it should be perfect in every detail. As far as school discipline has anything to do with it, the object should be, primarily, to strengthen character, and so prevent the evil. It is the province of an authority outside the school, under the enactments of the Commonwealth, to see to it that the child is kept where mind and character may be reached by the instruction provided. If the personal influence of the teacher and the public sentiment of the school fail to commend a course of rectitude, the best service which the school can render is to teach the offender and his legal representative at once, that truancy is a forfeiture of its privileges, and so bring both face to face with municipal and State authority. The tendency will be to awaken parent or guardian to a full sense of responsibility and tax home resources to the uttermost. Here is usually found the source of the evil, and here the remedy should be applied; the more so as oppo-

sition, apathy, or incompetency at home, will, in a high degree, neutralize the best influences at school. If this fails, responsibility reverts to the authorities, for habitual truants have no right to be in the public schools, and the State has assumed this in providing that "Each town shall make all needful provisions and arrangements concerning habitual truants . . . and . . . such by-laws as shall be most conducive to the welfare of such children, and to the good order of such town; and shall provide suitable places for the confinement, discipline, and instruction of such children."

The only provision made by the city for such cases is in conformity with the following ordinance: —

"Children between the ages of seven and fifteen years, who are habitual truants, or who may be found wandering about in the streets or public places, having no lawful occupation or business, not attending school, and growing up in ignorance, and neglected children under sixteen years of age, shall be committed to the almshouse of the city of Newton for the term prescribed by law, and shall there be confined and receive discipline and instruction."

I am unable to learn that any child has ever been so committed, whether for want of occasion or otherwise does not appear; certain it is, that for years our schools have suffered from, while our masters have struggled with, an evil which they have felt themselves powerless to correct. If the provisions made are "suitable," they should be brought into requisition when occasion demands; if not, they should at once be made so. The confinement of the truant is not the chief necessity, even if it is the first.

Ample and most careful provision should be made for instruction, industrially and otherwise, under competent teachers; and, most important of all, these facilities should be made to subserve the development of every germ of good discoverable by an alert spirit of practical benevolence. In the absence of such provisions it is better that there be no committal under arrest and conviction, and because of such absence there probably will be none; if there is no committal, conviction will lose its terrors and arrests will be worse than useless; if there are no arrests, the service which has called for a distinct class of city officers and given them a name degenerates to the capture and return of runaway boys, a proceeding which, independent of its connection with a complete system of legal enforcement, is a positive evil.

Now, to those familiar with the facts, it is manifest that the city almshouse possesses no adequate facilities for the proper "confinement, discipline, and instruction of such children"; in fact it offers nothing but ministration to the wants of the body and then forcible restraint of its freedom by lock and key. This surely is not the spirit of the law, however accommodating its letter may be. If the evil of truancy is to be eradicated from our schools, if those unfortunate waifs who are addicted to it are to be rescued from a vagabond life and their demoralizing influence upon other children counteracted, — all of which is within the compass of a vigorous policy, — the entire machinery of legal constraint should be made complete and effective by a thorough equipment of some truant school or by some arrangement with one already equipped, with a view to the prompt and energetic

prosecution of every case. I commend the subject to your most thoughtful consideration.

Other topics of vital interest in a cause which lies close to the hearts of all the wise and good are ripe and invite discussion. But this report has already exceeded the limits assigned to it, and exhausted the time if not your patience; it shall trespass no further, save to record a grateful acknowledgment of manifold courtesies, both official and personal.

Respectfully submitted,

JOHN E. KIMBALL,
Superintendent.

NEWTON. MASS., Dec. 26, 1883.

STATISTICS.

Population of the city, United States census of 1880 . . . 17,000
 Number of persons in the city between five and fifteen
 years of age, May 1, 1882 and 1883, by wards:—

WARDS.	1882.	1883.	Increase.	Decrease.
I.	463	512	49	—
II.	645	699	54	—
III.	506	519	13	—
IV.	562	554	—	8
V.	470	460	—	10
VI.	549	558	9	—
VII.	263	262	—	1
Total	3,458	3,564	125	19
Net	—	—	106	—

Whole number of pupils enrolled, 1881-82	3,759
Whole number of pupils enrolled, 1882-83	4,002
Increase	243
Average whole number of pupils, 1881-82	3,092.7
Average whole number of pupils, 1882-83	3,170.3
Increase	77.6
Average attendance, 1881-82	2,796.7
Average attendance, 1882-83	2,903.8
Increase	107.1
Average per cent of attendance	91.6

Table showing the Annual Enrollment in each of the Primary and Grammar Grades in September, 1876-1883.

DATE.	GRADES.									Total.
	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	
September, 1876	380	383	338	420	282	252	261	165	129	2610
September, 1877	424	321	361	398	394	225	214	199	126	2662
September, 1878	423	347	306	341	392	300	194	190	157	2655
September, 1879	431	365	359	298	344	294	271	159	157	2678
September, 1880	464	372	376	321	296	342	260	221	162	2814
September, 1881	530	386	381	394	270	312	311	211	150	2945
September, 1882	510	436	405	353	403	237	266	225	180	3015
September, 1883	514	454	436	398	369	298	210	183	166	3023
Average.....	460	383	370	365	344	283	248	194	153	2800

Table showing the Percentage of Total Annual Enrollment in each of the Primary and Grammar Grades in September, 1876-1883.

DATE.	GRADES.									Total.
	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	
September, 1876	14.6	14.7	12.9	16.1	10.8	9.7	16	6.3	4.9	100
September, 1877	15.9	12.1	13.6	15	14.8	8.5	8	7.4	4.7	100
September, 1878	16.2	13.1	11.5	12.8	14.8	11.3	7.3	7.1	5.9	100
September, 1879	16.1	13.6	13.4	11.1	12.8	11	10.1	6	5.9	100
September, 1880	16.5	13.2	13.4	11.4	10.5	12.1	9.2	7.9	5.8	100
September, 1881	18	13.1	12.9	13.4	9.2	10.6	10.5	7.2	5.1	100
September, 1882	16.9	14.5	13.4	11.7	13.4	7.8	8.8	7.5	6	100
September, 1883	17	15	14.4	13.2	12.2	9.8	6.9	6	5.5	100
Average.....	16.4	13.7	13.2	13.1	12.3	10.1	8.8	6.9	5.5	100

Table showing the Annual Enrollment, and Percentage of Total Annual Enrollment, in each Class of the High School in September, 1878-1883.

DATE.	CLASSES.								Total Number of Pupils.	Total per cent.
	IV.		III.		II.		I.			
	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.		
September, 1878	96	36.9	76	29.2	53	20.4	35	13.5	260	100
September, 1879	127	43.1	72	24.4	60	20.3	36	12.2	295	100
September, 1880	104	34.3	97	31.9	60	19.7	43	14.1	304	100
September, 1881	114	39.9	58	20.3	77	26.9	37	12.9	286	100
September, 1882	104	35.1	92	31.1	51	17.2	49	16.6	296	100
September, 1883	125	39.9	78	24.9	70	22.4	40	12.8	313	100
Average.....	111	38	79	27.1	62	21.2	40	13.7	292	100

Table showing the Annual Enrollment by Districts in each of the Primary and Grammar Grades in September, 1882 and 1883.

DISTRICTS.	GRADES.									Total.
	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	
Newton Centre, including Oak Hill and Thompsonville	1882, 89 1883, 82	57 61	65 58	59 73	55 66	43 42	35 35	39 32	32 21	474 470
Highlands	1882, 25 1883, 33	32 19	19 30	22 20	20 20	16 20	16 18	15 10	15 13	180 185
Upper Falls	1882, 34 1883, 37	36 35	30 39	33 23	25 29	19 22	28 18	17 23	18 17	240 243
Lower Falls	1882, 16 1883, 16	18 14	14 19	16 11	9 13	14 6	10 11	6 9	17 2	120 101
Auburndale	1882, 33 1883, 46	37 34	39 36	40 45	42 42	15 19	25 13	27 12	13 22	271 269
West Newton ..	1882, 102 1883, 101	71 76	86 70	64 72	78 64	41 81	57 29	29 27	35 30	563 550
Newtonville	1882, 143 1883, 140	123 118	88 121	71 78	77 79	52 42	54 54	39 37	28 23	675 692
Newton.....	1882, 68 1883, 59	62 97	64 63	48 74	97 56	37 66	41 32	53 33	22 38	492 518
Total	1882, 510 1883, 514	436 454	405 436	353 398	403 369	237 298	266 210	225 183	180 166	3,015 3,028

Table showing the Percentage of Total Annual Enrollment by Districts in each of the Primary and Grammar Grades in September, 1882 and 1883

DISTRICTS.	GRADES.									Total.
	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	
Newton Centre, including Oak Hill and Thompsonville	1882, 18.8 1883, 17.5	12 13	13.7 12.3	12.4 15.5	11.6 14.1	9.1 8.9	7.4 7.4	8.2 6.8	6.8 4.5	100 100
Highlands	1882, 13.9 1883, 17.9	17.8 10.3	10.6 16.2	12.2 11.9	11.1 10.8	8.9 10.8	8.9 9.7	8.3 5.4	8.3 7	100 100
Upper Falls	1882, 14.2 1883, 15.2	15 14.4	12.5 16	13.7 9.5	10.4 11.9	7.9 9.1	11.7 7.4	7.1 9.5	7.5 7	100 100
Lower Falls	1882, 13.3 1883, 15.8	15 13.9	11.7 18.8	13.3 10.9	7.5 12.9	11.7 5.9	8.3 10.9	5 8.9	14.2 2	100 100
Auburndale	1882, 12.2 1883, 17.1	13.6 12.6	14.4 13.4	14.8 16.7	15.5 15.6	5.5 7.1	9.2 4.9	10 4.4	4.8 8.2	100 100
West Newton ..	1882, 18.1 1883, 18.4	12.6 13.8	15.3 12.7	11.4 13.1	13.9 11.6	7.3 14.7	10.1 5.3	5.1 4.9	6.2 5.5	100 100
Newtonville	1882, 21.2 1883, 20.2	18.3 17.1	13 17.5	10.6 11.3	11.2 11.4	7.7 6.1	8 7.8	5.8 5.3	4.2 3.3	100 100
Newton.....	1882, 13.8 1883, 11.4	12.6 18.7	13 12.2	9.8 14.3	19.7 10.8	7.5 12.7	8.3 6.2	10.8 6.4	4.5 7.3	100 100
Total	1882, 15.7 1883, 17	14.6 15	13 14.4	12.3 13.1	12.6 12.2	8.2 9.8	9 7	7.5 6	7.1 5.5	100 100

Table showing the Number of Pupils and their Average Age by Grades and Classes for September, 1882 and 1883.

SCHOOLS.		GRADES.																							
		I.			II.			III.			IV.			V.			VI.			VII.					
		No. of Pupils.		Av Age	No. of Pupils.		Av Age	No. of Pupils.		Av Age	No. of Pupils.		Av Age	No. of Pupils.		Av Age	No. of Pupils.		Av Age	No. of Pupils.		Av Age			
		Years.	Mos.	Years.	Mos.	Years.	Mos.	Years.	Mos.	Years.	Mos.	Years.	Mos.	Years.	Mos.	Years.	Mos.	Years.	Mos.	Years.	Mos.				
High	{ 1882 ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	{ 1883 ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mason	{ 1882 70	5	9	44	7	1	49	7	10	59	9	5	49	10	6	43	11	7	35	12	4	6			
..	{ 1883 56	5	6	47	6	9	45	9	9	66	9	2	64	10	9	42	11	7	33	12	6	6			
Oak Hill	{ 1882 3	6	5	6	6	6	10	9	2	..	9	7	6	10	5	..	..	..	..	..	..	..
..	{ 1883 3	5	6	5	8	6	5	8	..	7	9	7	2	10	3	..	..	..	..	..	..	..
Thompsonville...	{ 1882 12	5	1	7	7	1	6	8	8	..	..	..	..	..	..	..	..	..	..	..	..	..
..	{ 1883 23	5	11	9	7	4	8	8	11	..	..	..	..	..	..	..	..	..	..	..	..	..
Hyde	{ 1882 25	5	8	32	7	10	19	8	5	22	9	6	20	11	..	16	12	..	16	13	..	..	
..	{ 1883 33	5	..	19	7	2	30	8	5	22	9	5	20	10	10	20	11	3	18	12	9	9			
Prospect.....	{ 1882 34	5	6	36	7	1	30	8	10	33	9	4	25	10	5	19	11	4	28	12	6	6			
..	{ 1883 37	5	5	35	7	1	39	8	8	23	9	2	29	10	4	22	11	5	18	12	3	3			
Hamilton	{ 1882 16	6	..	18	6	9	14	8	8	16	9	8	9	11	..	14	12	..	10	12	9	9			
..	{ 1883 16	6	3	14	7	6	19	8	5	11	9	7	13	10	8	6	12	3	11	12	9	9			
Williams	{ 1882 33	6	1	37	7	3	39	8	3	40	10	1	42	11	..	15	12	8	25	13	8	8			
..	{ 1883 46	5	11	34	7	6	36	7	11	45	10	..	42	11	3	19	12	..	13	13	6	6			
Pierce	{ 1882 ..	..	..	..	..	..	..	..	..	..	..	..	55	11	1	23	12	4	43	12	8	8
..	{ 1883 ..	..	..	..	..	..	..	..	..	..	..	..	44	10	9	62	11	10	29	13	2	2
Davis	{ 1882 53	6	4	49	7	4	49	8	4	44	9	10	..	..	..	..	..	..	..	..	..	..
..	{ 1883 61	6	2	44	7	6	40	8	4	50	9	5	..	..	..	..	..	..	..	..	..	..
Franklin.....	{ 1882 49	6	8	22	7	2	37	8	10	22	9	2	23	10	11	18	11	2	14	12	10	10			
..	{ 1883 40	5	10	32	7	4	30	8	6	22	9	6	20	11	4	19	12	..	..	..	..	..
Adams	{ 1882 15	7	8	32	8	..	33	9	5	13	10	2	..	..	..	..	..	..	33	12	11	11
..	{ 1883 31	6	4	21	7	9	33	9	1	19	9	10	21	11	2	13	12	..	18	13	1	1			
Claffin	{ 1882 51	6	1	37	7	10	21	8	11	23	9	6	39	10	7	24	12	7	21	12	9	9			
..	{ 1883 29	6	9	30	7	5	37	8	9	18	10	8	17	11	4	9	12	1	16	12	9	9			
Jackson	{ 1882 77	6	4	54	8	1	34	9	8	35	10	9	38	11	8	28	12	2	..	..	..	..
..	{ 1883 80	6	5	67	8	1	51	9	9	11	11	5	41	12	1	20	12	5	20	12	6	6			
Bigelow	{ 1882 ..	..	..	..	..	..	..	..	..	48	9	6	97	11	4	37	12	2	41	13	8	8
..	{ 1883 ..	..	..	..	..	..	..	..	..	74	10	1	56	11	1	66	12	1	32	13	7	7
Underwood	{ 1882 56	6	5	52	7	4	51	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	{ 1883 45	6	1	82	7	6	53	9	3	..	..	..	..	..	..	..	..	..	..	..	..	..
Lincoln.....	{ 1882 12	5	7	10	7	8	13	8	9	..	..	..	..	..	..	..	..	..	..	..	..	..
..	{ 1883 14	6	2	15	7	1	10	9	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	{ 1882 510	6	1	436	7	4	405	8	9	353	9	9	403	10	11	237	12	..	266	12	11	11			
..	{ 1883 514	5	11	454	7	6	436	8	9	398	9	10	369	11	..	198	11	11	210	13	11	11			

Table showing the Number of Pupils and their Average Age by Grades and Classes for September, 1882 and 1883. (Concluded.)

SCHOOLS.	GRADES. — Concluded.																	Total Number of Pupils.		
	VIII.			IX.			Class IV.			Class III.			Class II.			Class I.				
	No. of Pupils.	Av Age.		No. of Pupils.	Av Age.		No. of Pupils.	Av Age.		No. of Pupils.	Av Age.		No. of Pupils.	Av Age.		No. of Pupils.	Av Age.			
		Years.	Mos.		Years.	Mos.		Years.	Mos.		Years.	Mos.		Years.	Mos.		Years.		Mos.	
High	{ 1882, .. .. .	..	..	..	..	..	104	15	5	92	15	11	51	16	5	49	17	8	296
	{ 1883, .. .. .	..	..	..	..	..	125	15	3	78	16	1	70	17		40	17	10	313
Mason	{ 1882, 32 13 10	32	13	10	32	14	..	..	..	..	..	..	..	..	..	..	..	..	413
	{ 1883, 32 13 10	32	13	10	16	14	1	..	..	..	..	..	..	..	..	..	..	..	403
Oak Hill	{ 1882, 7 13 1	7	13	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	36
	{ 1883, .. .. .	..	..	..	5	14	6	..	..	..	..	..	..	..	..	..	..	..	27
Thompsonville ..	{ 1882, .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	25
	{ 1883, .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40
Hyde	{ 1882, 15 13 3	15	13	3	15	14	6	..	..	..	..	..	..	..	..	..	..	..	180
	{ 1883, 10 13 2	10	13	2	13	14	6	..	..	..	..	..	..	..	..	..	..	..	185
Prospect	{ 1882, 17 13 6	17	13	6	18	14	2	..	..	..	..	..	..	..	..	..	..	..	240
	{ 1883, 23 13 7	23	13	7	17	14	7	..	..	..	..	..	..	..	..	..	..	..	243
Hamilton	{ 1882, 6 14 3	6	14	3	17	14	10	..	..	..	..	..	..	..	..	..	..	..	120
	{ 1883, 9 13 7	9	13	7	2	15	11	..	..	..	..	..	..	..	..	..	..	..	101
Williams	{ 1882, 27 13 2	27	13	2	13	14	4	..	..	..	..	..	..	..	..	..	..	..	271
	{ 1883, 12 14 4	12	14	4	22	14	5	..	..	..	..	..	..	..	..	..	..	..	269
Pierce	{ 1882, 29 13 6	29	13	6	35	14	4	..	..	..	..	..	..	..	..	..	..	..	185
	{ 1883, 27 13 6	27	13	6	30	14	..	..	..	..	..	..	..	..	..	..	..	..	192
Davis	{ 1882, .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	195
	{ 1883, .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	195
Franklin	{ 1882, .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	183
	{ 1883, .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	163
Adams	{ 1882, 39 13 6	39	13	6	28	14	8	..	..	..	..	..	..	..	..	..	..	..	193
	{ 1883, 26 13 8	26	13	8	23	14	6	..	..	..	..	..	..	..	..	..	..	..	205
Clafin	{ 1882, .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	216
	{ 1883, 11 13 10	11	13	10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	167
Jackson	{ 1882, .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	266
	{ 1883, .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	320
Bigelow	{ 1882, 53 13 10	53	13	10	22	14	6	..	..	..	..	..	..	..	..	..	..	..	298
	{ 1883, 33 14 1	33	14	1	35	14	9	..	..	..	..	..	..	..	..	..	..	..	299
Underwood	{ 1882, .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	159
	{ 1883, .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	180
Lincoln	{ 1882, .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	35
	{ 1883, .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	39
Total	{ 1882, 225 13 7	225	13	7	180	14	5	104	15	5	92	15	11	51	16	5	49	17	8	3311
	{ 1883, 133 13 8	133	13	8	166	14	7	125	15	3	78	16	1	70	17		40	17	10	3028

REPORT OF SCHOOL COMMITTEE.

Table showing the Monthly Attendance, by Schools, for the Year ending June 29, 1883.

SCHOOLS.	SEPTEMBER.			OCTOBER.			NOVEMBER.			DECEMBER.			JANUARY.			FEBRUARY.		
	Average Whole Number.	Attendance.	Percentage of Attendance.	Average Whole Number.	Attendance.	Percentage of Attendance.	Average Whole Number.	Attendance.	Percentage of Attendance.	Average Whole Number.	Attendance.	Percentage of Attendance.	Average Whole Number.	Attendance.	Percentage of Attendance.	Average Whole Number.	Attendance.	Percentage of Attendance.
High.....	287.5	274.9	95.6	284.2	282	95.8	289.4	272.6	94.2	279.7	256.5	91.7	270.4	248.9	92	268.4	249.5	92.6
Mason.....	400.4	369.8	92.6	415.5	381.5	92.7	425.8	379.7	90.8	403.1	345.2	86	395.7	358.3	91	394.1	354.5	90.3
Oak Hill.....	35.5	32.1	90.3	34.6	31	89.6	34.5	31.5	91.3	30.9	25.6	82.4	28.8	23.9	82.9	25.6	23.6	92.1
Thompsonville.....	24.4	21.6	88.5	26.8	22.5	83.9	26.8	24.1	89.9	26.7	22.9	85.7	25.3	22.2	87.7	25	22.4	89.6
Hyde.....	172.8	159.8	91.9	172.5	161.8	93.3	175.6	165.9	94.7	179.7	166.4	92.8	179.1	174.2	92.9	175.1	162.9	92.5
Prospect.....	229.5	218	94.8	227.7	218.5	95.9	231.2	214.7	93	228.4	220.2	96.3	229.3	217.4	94.5	227	214.6	94.4
Hamilton.....	116.4	112.5	96.7	118	112.9	95.9	116	110.7	95.9	113	103.3	92.3	108.6	100.1	93.6	111.2	104.2	94.7
Williams.....	259.9	241.3	93.1	265.8	246.3	92.4	264.8	245.3	92.5	259.8	230.7	88.9	252.4	226.3	89.4	246.4	218.1	88.7
Pierce.....	178.2	172.7	97	182.1	175.3	96.5	177.1	170.9	96.5	178.6	169	94.9	180.3	170.5	94.8	177.5	170.9	96.2
Davis.....	186.7	174.6	93.5	191	183.3	95.6	194.7	183.8	94.6	191.5	176	92.1	189.4	169.9	89.9	184.9	168.6	91.2
Franklin.....	182.8	168.5	92.4	178.6	164	92.1	189.7	155.4	91.5	158.1	140.5	88.9	160.6	144.3	89.8	153.4	140.3	91.2
Adams.....	182.7	170.3	93.8	229.6	190.9	95.6	202.8	183	95.5	198.3	182	92.3	188.2	169.6	90.8	182.4	169.3	92.8
Clafin.....	203.3	184.1	90.7	215.3	198.9	92.6	205.6	187.4	91.4	205.6	187.4	91.4	206.4	194.6	94.5	206.4	187.6	91.1
Jackson.....	250.5	226.5	90.2	265.7	241.7	90.9	274.9	247.2	89.8	270.3	237.4	87.9	265.8	227.9	82.6	258	224.2	87.7
Bigelow.....	281.7	270.1	95.6	293.9	280.1	95.5	291.5	274.8	94.6	287.9	268.8	93.1	286.8	267	93.3	279.7	260.1	93
Underwood.....	151.2	138.2	91.1	163.5	154.3	94.2	173.8	160.9	92.6	178	159	89.3	176.7	152.9	86.8	176.2	153.3	87.3
Lincoln.....	34.3	30.4	88.8	32.3	30.1	93.5	32	30.5	93.5	31.6	29.4	93	33	29.6	89.6	32.7	30.2	92.3
Total.....	3177.6	2965.4	93.3	3307.1	3115.1	94.1	3286.2	3048.4	92.7	3221.2	2920.3	90.7	3176.8	2857.6	90	3125	2854.3	91.3

Table showing the Monthly Attendance, by Schools, for the Year ending June 29, 1883. (Concluded.)

STATISTICS.

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SCHOOLS.	MARCH.			APRIL.			MAY.			JUNE.			ENROLLED.				YEAR.		
	Whole Number.	Average Attendance.	Percentage of Attendance.	Whole Number.	Average Attendance.	Percentage of Attendance.	Whole Number.	Average Attendance.	Percentage of Attendance.	Whole Number.	Average Attendance.	Percentage of Attendance.	Whole Number of Pupils Enrolled.	Number under five years of age.	Number over five years of age.	Average Whole Number.	Average Attendance.	Percentage of Attendance.	
High	266.3	245.1	92.1	254.6	232.9	91.5	247.5	223.4	90.3	241.4	212.4	88	311	0	265	270	249.8	92.5	
Mason	376.2	323.3	86.3	381.8	351.2	90.1	385.5	341.8	89.4	370.3	335.4	91.1	474	1	18	384.8	354.1	89.7	
Oak Hill	25.6	21.6	84.5	25.8	23.3	90.1	26.5	24.8	93.7	26.5	24.3	91.6	37	1	1	29.4	26.2	89.1	
Thompsonville	25	21.4	85.6	24.5	21.6	88.1	27.5	23.9	86.9	28	25.1	89.6	41	4	0	26	22.8	87.7	
Hyde	171.8	154.5	89.7	189.2	169	93.7	183.2	171.4	93.6	181.6	170	93	292	0	5	178.1	165.6	93	
Prospect	225.4	204.6	90.6	229.2	215.2	93.8	227.9	213.9	94	228.3	218.6	95.5	285	7	7	228.4	215.6	94.4	
Hamilton	110.1	103	94.1	112.4	105.5	94	109.2	103.7	95.4	102.4	97.4	96	139	1	9	111.7	105.3	94.3	
Williams	238.2	191.3	88.7	255.3	231	90.9	250.4	230.1	92.4	222.3	202.7	91.9	314	1	17	251.5	226.3	90	
Pierce	172.8	161.2	93.4	164.8	156.9	95.3	165.7	157.5	95.1	160	150.1	93.9	192	0	15	173.7	165.5	95.3	
Davis	178.9	158.5	88.5	194.4	180.3	93	199.7	185.5	93.2	196.7	182.1	93	241	0	0	190.8	176.3	92.4	
Franklin	153.6	134.9	87.9	166.1	150.1	90.5	158.2	143.3	91.9	156.3	146.2	92.3	186	0	0	163.7	149	91	
Adams	181.5	162.7	90.1	182.7	168.8	92.4	176	162.6	92.4	159.9	133.1	89.1	249	0	16	187.5	170.2	90.8	
Chafin	203.4	181.2	89.4	215.6	198.9	92.5	205.7	188.1	91.7	180.3	160.4	88.7	261	2	4	204.8	186.9	91.3	
Jackson	261	228.6	87.5	302.6	263.8	87.1	284.6	246.3	86.6	274.5	242.2	88.3	478	6	9	270.8	238.6	88.1	
Bigelow	272.5	249.1	91.5	275.2	253	92	269.3	250.5	93.1	255.9	240.2	94	332	0	43	280	261.4	93.4	
Underwood	179.2	162.4	90.6	191.3	170.9	90	186.7	170.2	91.9	181.8	166.7	91.8	229	0	0	175.8	158.9	90.4	
Lincoln	31.8	29.7	93.6	37.4	33.4	89.2	39.3	36.5	93	39.1	35.8	91.7	40	0	0	34.4	31.6	91.9	
Total	3073.3	2733.1	88.9	3202.9	2925.8	91.3	3142.9	2875.5	91.4	2996.3	2742.7	91.5	4002	23	409	3170.3	2993.8	91.6	

ROLL OF TEACHERS.

HIGH SCHOOL.

HEAD MASTER.

EDWARD H. CUTLER, Washington Street, Newton.

MASTER.

EZRA W. SAMPSON, Washington Street, Newtonville.

ASSISTANT MASTER.

S. WARREN DAVIS, River Street, West Newton.

ASSISTANTS.

Miss CAROLINE SPEAR, Walnut Park, Newton.

Miss S. ALICE WORCESTER, Highland Avenue, Newtonville.

Miss M. ABBY SMITH, Court Street, Newtonville.

Miss MAYBELL P. DAVIS, Highland Avenue, Newtonville.

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Music.

TIMOTHY L. ROBERTS, Brooks Avenue, Newtonville.

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SECRETARY'S REPORT.

SCHOOL APPROPRIATIONS FOR 1883.

General appropriation for schools	\$85,500 00	
Received from the dog tax	1,075 26	
	<u>\$86,575 26</u>	
Amount paid to the superintendent	\$2,700 00	
" paid to the teachers	73,181 64	
" paid to the janitors	4,238 00	
" paid to the secretary	300 00	
" paid for fuel	<u>4,436 76</u>	
Total amount expended	84,856 40	
Balance unexpended	<u>\$1,718 86</u>	
Appropriation for evening school	\$650 00	
Amount expended	<u>523 39</u>	
Balance unexpended	126 61	
Appropriation for industrial drawing	\$300 00	
Amount expended	<u>167 75</u>	
Balance unexpended	132 25	
Appropriation for conveyance of pupils to the High School	\$650 00	
Amount expended	<u>600 00</u>	
Balance unexpended	50 00	
Appropriation for school incidentals	\$10,000 00	
Amount expended	<u>9,794 73</u>	
Balance unexpended	205 27	
Total balance unexpended	<u><u>\$2,232 99</u></u>	

RECAPITULATION.

APPROPRIATIONS.

General appropriation, including dog tax . . .	\$86,575 26
Evening school appropriation	650 00
Industrial drawing "	300 00
Conveyance of pupils "	650 00
School incidentals "	10,000 00
Total appropriations	<u>\$98,175 26</u>

EXPENDITURES.

General appropriation	\$84,856 40
Evening school	523 39
Industrial drawing	167 75
Conveyance of pupils	600 00
School incidentals	9,794 73
Total amount expended	<u>95,942 27</u>
Balance unexpended	<u>\$2,232 99</u>

ISAAC HAGAR,

Secretary.

TEXT-BOOKS AUTHORIZED IN THE NEWTON SCHOOLS.

THE rules of the city School Board very wisely provide that "The Committee on Text-Books shall carefully consider every proposition to change any text-book or text-books, or to make any addition to the text-books prescribed for the schools; and report thereon to the Board, in writing, stating the vote in Committee. No new text-book shall be introduced into any school without the knowledge of the Committee, or unless it has been recommended by said Committee, and approved by the Board, in accordance with the law of the State." The following list of text-books, authorized in accordance with this provision in the several schools of the city at the close of the year 1883, has been carefully revised from the records of the Board since the previous publication in 1880.

FOR GRAMMAR AND PRIMARY SCHOOLS.

Analytical Speller.

Bowler and Thompson's Copy-Books.

Bible Manual. Perry.

Child's Book of Nature. Hooker.

Franklin, Second, Third, Fourth, and Intermediate Readers.*

Franklin, Elementary and Written Arithmetic.

Guyot's New Intermediate Geography.

History of the United States. Higginson.

Hotze's Physics.

Hour of Singing.

Jarvis's Physiology.

Monroe's First, Fifth, and Sixth Readers.†

Monroe's Practical Speller.

* Second and Third Advanced.

† Revised in grades where the old series are now used.

Meservey's Single Entry Book-keeping. Grammar Classes.
 Music Readers. First, Second, Third, Fourth, and Intermediate.
 Our World. Part I.
 Swinton's Language Lessons.
 Swinton's Introductory Geography.*
 Scribner's Geographical Reader and Primer.*
 Worcester's Comprehensive Dictionary.

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FOR TEACHERS' TABLES.

American Text-Book of Art Education. Smith.
 Appleton's Readers.†
 Cooley's Natural Philosophy.
 Colburn's Common School Arithmetic.
 Elementary Instruction. Sheldon.
 Greenleaf's New Elementary Arithmetic.
 Greenleaf's New Elementary Algebra. Eighth and Ninth
 Classes.
 History of our Country. Richardson.
 History of the United States. Barnes.
 Harrington's Graded Spelling-Book.
 Harper's Geography.
 Lesson on Objects. Calkins and Sheldon.
 Meservey's Book-keeping. Eighth and Ninth Classes.
 Manual of Commerce.
 Manual of Parsing. Eighth and Ninth Classes.
 McGuffey's Readers.†
 Swinton's School Composition.
 Swinton's Language Primer.
 Walton and Hagar's Written Arithmetics. All classes.
 Walton's Common School Arithmetic.
 Wilson's Readers.†
 Worcester's Comprehensive Dictionary.

* As reading-books in grammar grades.

† And other Supplementary Reading, with Globes, Maps, Charts, etc.

FOR EACH SCHOOL BUILDING (ONE COPY).

Agassiz's Seaside Studies.
 Alcohol and Hygiene. Colman.
 First and Second Books of Botany. Youmans.
 Geike's Geological Primer.
 Goodrich's Child's History.
 How to Teach.
 Lippincott's Gazetteer.
 Morse's First Book of Geology.
 Supplementary Reading for Primary Schools. Parts I. and II.
 Parker and Marvel.

 HIGH SCHOOL.

TEXT-BOOKS.

LATIN.

Grammar. — Harkness, or Allen and Greenough. *Reader.* — Harkness. *Cæsar.* — Harkness. *Vergil.* — Hanson and Rolfe. *Cicero.* — Chase and Stuart. *Ovid.* — Allen and Greenough, or Lincoln. *Composition.* — Harkness, Allen and Greenough, or Jones. *Latin Method.* — Allen and Greenough.

GREEK.

Lessons. — White. *Grammar.* — Goodwin. *Reader.* — Goodwin. *Anabasis.* — Goodwin, Owen, or Boise. *Iliad.* — Owen, or Boise. *Composition.* — Jones.

FRENCH.

Grammar. — Magill, or Keetels. *Readers.* — Magill. *Prose and Poetry.* — Magill. *Life of Charles XII.* — Voltaire. *The Adventures of Telemachus.* — Fénelon. *Clos Pommier.* *Théâtre Classique.* *Dictionary.* — Spiers and Surrenne.

GERMAN.

Grammar. — Otto, or Sheldon. *Readers.* — Ahns. *German Translation of Campbell's History of the United States.* — Fischer. *Marie Stuart.* — Schiller. *Minna von Barnhelm.* — Lessing. *German Classics.* — Bucheins. *Dictionary.* — Adler, or Elwell.

MATHEMATICS.

Algebra. — Eaton, Wentworth, or Greenleaf. *Geometry.* — Wentworth. *Trigonometry.* — Bradbury. *Surveying.* *Logarithms.* — Pierce. *Analytic Geometry.* *Arithmetic.* — Walton, or Crittenden.

ENGLISH.

Language.

Exercises in Composition. — Parker. *Sketch-Book.* — Irving. *English Classics.* — Clark and Maynard, and Rolfe. *Modern Classics.* — Houghton & Co., Publishers. *Literary Studies.* — Morgan. *Shakespeare.* — Hudson, or Rolfe. *Prose and Poetry.* — Hudson. *Poems of Goldsmith.* — Rolfe. *Rhetoric.* — Hart. *How to Write Clearly.* — Abbott.

Science.

Natural Philosophy. — Quackenbos. *Physics.* — Rolfe and Gillett, Arnold and Avery. *School and Field-Book of Botany.* — Gray. *Chemistry.* — Eliot and Storer, or Hooker. *Astronomy.* — Lockyer. *Zoölogy.* — Hooker. *Mineralogy.* — Hooker. *Geology.* — Hooker. *Political Economy.* — Nordhoff. *Physical Geography.* — Guyot. *Mental Philosophy.* — Wayland. *Moral Philosophy.* — Peabody. *Commercial Geography.* — Harper. *Questions on Geography.* — Tufts. *Book-keeping.* Comer, or Meservey, the latter single and double entry.

History.

Constitution of the United States. — Andrews. *Outlines of History.* — Swinton, or Freeman. *Smaller Histories of Greece and Rome.* — Smith. *History of Rome.* — Leighton.

PENMANSHIP.

Eclectic System. — Thompson and Bowler.

MUSIC.

High-School Choir. — Emerson and Tilden.

DRAWING.

American Text-Book of Art Education. — Smith.

DECLAMATION.

Union Speaker. — Philbrick.

REFERENCE BOOKS.

History of Greece. — Grote. *History of England.* — Hume. *History of England.* — Froude. *History of England.* — Macaulay. *History of England.* — Collier. *Middle Ages.* — Hallam. *Constitutional History of England.* — Hallam. *History of Civilization in England.* — Buckle. *History of the Romans.* — Merivale. *History of Rome.* — Arnold. *Plutarch's Lives.* — Clough. *Ancient History.* — Rawlinson. *Smith's History of Greece.* — Felton. *History of the United States.* — Bancroft. *History of Peru.* — Prescott. *History of Mexico.* — Prescott. *History of Philip II.* — Prescott. *Robertson's Charles V.* — Prescott. *History of the United Netherlands.* — Motley. *American Conflict.* — Greeley. *Universal History.* — Tytler. *Rise of Dutch Republic.* — Motley. *Science of Language.* — Müller. *Shakespeare's Works.* — White. *Scott's Poems.* *History of the English Language.* — Marsh. *Grammar of English Grammars.* — Goold Brown. *Dick's Works.* *Information for the People.* — Chambers. *Handbook of English Literature.* — Underwood. *History of English Poetry.* — Warton. *English Literature.* — Taine. *Concordance of Shakespeare.* — Clarke. *History of Philosophy.* — Lewes. *Natural Philosophy.* — Cooley. *Manual of Mythology.* — Murray. *Manual of English Literature.* — Shaw. *Familiar Quotations.* — Bartlett. *Shakespearean Grammar.* — Abbott. *Dictionary of Americanisms.* — Bartlett. *Essay on the Human Understanding.* — Locke. *Juventus Mundi.* — Gladstone.

English Synonymes. — Whately. *English Synonymes.* — Graham. *English Synonymes.* — Crabb. *English Synonymes.* — Smith. *French Grammar.* — Girault-Duvivier. *Getting to Paris.* — Williams. *Age of Fable.* — Bulfinch. *Age of Chivalry.* — Bulfinch. *Chemistry.* — Muspratt. *Physics.* — Ganot. *Principles of Geology.* — Lyell. *Manual of Geology.* — Lyell. *Manual of Geology.* — Dana. *Manual of Botany.* — Gray. *Structural and Systematic Botany.* — Gray. *Trees and Shrubs of Massachusetts.* — Emerson. *The Earth.* — Reclus. *The Ocean.* — Reclus. *Latin Grammar* — Madvig and Zumpt. *Greek Grammar.* — Sophocles and Hadley. *Greek Moods and Tenses.* — Goodwin. *Classical Dictionary.* — Anthon. *Greek and Roman Biography.* — Smith. *Greek and Roman Geography.* — Smith. *Charicles and Gallus.* — Becker. *Dictionary of Roman and Greek Antiquities.* — Rich. *English-Latin Dictionary.* — Smith. *Dictionary of Authors.* — Allibone. *English Dictionary.* — Richardson. *French Dictionary.* — Bescherelle. *Biographical Dictionary.* — Lippincott. *Gazetteer.* — Lippincott. *English Dictionary.* — Webster. *English Dictionary.* — Worcester. *American Cyclopædia* (two sets). *Greek Lexicon.* — Liddell and Scott. *Latin Lexicon.* — Andrews and Bullions, and Harper's. *General Statutes of Massachusetts.* *Supplement to General Statutes.* *American Text-Book of Art Education.* — Smith.

Besides the above a set of the best editions of classical English authors, for reference in the study of English literature.

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ANNUAL REPORT
OF
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TRUSTEES' REPORT.

To his Honor the Mayor and the City Council of Newton.

IT is extremely gratifying to the Trustees, at this opening of a new year, to be able to present to you and to the citizens of Newton so favorable a report of the condition of the affairs of the Newton Free Library as is shown in the Report of the Superintendent herewith submitted.

We trust it will prove equally gratifying to you and them, showing, as it does, the marked and steady progress of the Library in the character claimed for it as a great educational aid in our city.

Tables A and B in the Appendix to that Report show the receipts from all sources during the past year to have been \$8,878.39, and the expenditures \$8,874.73; leaving a balance on hand, at the close of the year, of \$3.66.

There has also been expended from the income derived from the Jewett Art Fund, in the purchase of works on art, illustrations, and photographs, the sum of \$369.70, and from the Alden-Speare Fund, for works on manufacturing and its related subjects, the sum of \$48.42. These are independent and special funds, the incomes from which are devoted and applied to the purchase of the specialties called for by the terms of their endowment, and in the accounts of the Library are kept separate and distinct from those of the appropriations made to the Library by the City Council.

The forty thousand dollars devised to the City of Newton by the late Charles A. Read, for library and other purposes, having now been received by the city, and the amount invested for account of the beneficiaries under his will, we may reasonably conclude that the Library will receive during the current year the portion of the income therefrom to

which it is entitled under the terms of the will. Such, we presume, was also the expectation of the City Council when it reduced the annual appropriation for the Library for the current year five hundred dollars below that of last year. The estimates given in Table G of the Superintendent's Report show conclusively that we shall require every dollar we can realize this year from the bequest of Mr. Read for the necessary purchase of books, in order to meet the just requirements of our readers. In this connection we would respectfully renew the suggestion made to the City Council in our Report of last year; viz., that the portion of the income derived from the bequest of Charles A. Read which the Library is entitled to receive from the City, under the provisions of his will, be made a *special* appropriation to the *Trustees of the Library*, so that they may be enabled to devote and apply it to the creation and support of a special department of the Library, commemorative of the donor, and to be denominated the Charles A. Read Fund, or such other as may be deemed most appropriate.

We would call the particular attention of the City Council to the suggestions in the Report of the Superintendent, touching the need of the Library, in the near future, of an addition to its building, for the better accommodation of its reference department and those of our people having occasion to consult it. This reference department is now one of great importance and usefulness to our school-teachers and others, and certainly requires better facilities in order to properly fulfil its purpose than the present library building can now furnish.

The pleasure derived by the Trustees in the performance of their duties has been greatly enhanced by the harmonious and quiet manner in which all the details of the business affairs of the Library have been conducted by every one connected with it. We earnestly hope that the Mayor, and members of the City Council, will make many visits to it during the year, and witness for themselves the evidences on every hand of the great good it is accomplishing, and the manner of its doing.

J. S. FARLOW,
President of the Board of Trustees.

SUPERINTENDENT'S REPORT.

To the Board of Trustees of the Newton Free Library.

GENTLEMEN, — I have the honor to present to you the Annual Report of the Library for 1883, with the usual tables of statistics, which show the cost of administration, the amount expended for books, the character of the purchases made, the comparative circulation, and the proportion in which the different departments of literature are used and enjoyed by our citizens. The City Council generously enlarged our appropriation by five hundred dollars last year; but the whole of this amount was nearly exhausted in the increased expense of administration, and in the publication, which had become indispensable, of the additions to our Catalogue. In every other instance it will be seen, by examining our Table B, we have kept the incidental expenses within the averages of late years.

We have succeeded in securing from the appropriation a hundred dollars more for books during the past year than the previous one, and very considerable and valuable additions from the funds held by the Trustees of the Library. The visit of Miss James, the Librarian, to England, enabled us, at very much reduced prices, to secure a fine collection of books, both for the general list and the art department.

The weekly announcement of the new books, with a short description of their contents, in the local papers, has served to bring the fresh acquisitions to the knowledge of our patrons, and to awaken interest in their perusal.

This plan, which has now been in successful operation for two years, has attracted the attention of neighboring libraries,

and the same course has been followed, or slips from our papers containing these titles have been sought.

The disproportion between the amount expended in the administration of the Library and that for books arises from the successful effort to make daily exchanges in all our widely separated wards. By this plan we not only secure the advantage of one central institution and a more rapid and economical increase of books, but we really carry the advantages of the Library almost to the doors of all our citizens. There has been scarcely any complaint during the year of failure to meet the just expectations of all our patrons in the most distant portions of the city.

This arrangement of agencies in the different wards entails a large annual cost in carrying out and returning the books daily, and in the incidental expenses of the different depositories, but is far more economical than the establishment of separate branches.

Up to last year there had been an annual increase in the number of volumes taken from the Library. This year, for the first time, a slight falling off will be noticed. For one or two years, in all the larger circulating-libraries of the country a similar decrease has been experienced, and has been a matter of consideration, particularly in the Boston Public Library; and different reasons have been suggested as the occasion for it.

With us many reasons have operated to produce this result. First, the absence of our families from the city during the summer vacation increases both in length of time and in the number of those availing themselves of the opportunity. The number of books taken from the Library during these months is much smaller than in other portions of the year. Second, the increase of cheap periodicals publishing the sensational fictions of the day, and freely purchased by families, especially at the close of the week, makes a sensible impression upon the circulation of the libraries. We have not sought to win back any such readers, or to offer facilities for the cultivation of a taste for this form of literature, by taking special pains to provide, and publicly announce, accessions to our shelves of any of the unwholesome, exciting, and badly-written novels of the hour.

On the other hand, we have not failed to secure several copies of each of such works of fiction as can pass the ordeal of a fair criticism, and apparently carry no specially evil influence with them in their general circulation. It is proper to say, in commendation of our Newton community of readers, that we have but a small demand for the other class of fictitious works. It may be that these are seldom asked for on account of the well-established and known policy of the Library from its origin.

Third, a more marked reason for this slight falling away in the aggregate number of volumes issued during the year is found in the gradual but healthful change in the taste and requisitions of our readers. Our comparative statistics show a significant gain in the percentage of works of history, of natural science, of essays, poetry and dramatic works, and of theology, and a slight decrease in the percentage of fiction. Two things result from this fact. It requires much more time to read these substantial books, and fewer books will therefore be taken out during the year; and the neglect, which this better reading renders necessary, of the lighter literature, decreases (without occasioning regret) the circulation of the Library at the point where it is most sensitive, and where it usually finds its largest field for growth. In the different wards of the city, clubs have been formed, both of adults and youth, for general reading, for historical study, for political discussions, and for investigations in natural science.

The effect of these associations is felt in a marked degree at the Library, both in the quality of books now sought, and in the use of it for constant reference and study. The very highest office that can be sought or desired for the Library, it is already beginning to accomplish for the community. Its work as a people's university is fairly opened. Every day its tables are covered with volumes for examination by those who are interested in some special form of study. It is becoming more and more a reference library, without limiting its usefulness and breadth as a circulating medium.

In a community like ours, becoming so inviting to literary men, and already the residence of an unusual number of pro-

fessional writers and students, the requisitions upon such an institution as ours must continually increase. We have sought every year, while securing the current literature of the day, to add to our substantial books the most important and rarest works of reference. The twenty thousand volumes already upon our shelves seem to be quite an extensive collection; but their comparatively meagre character is revealed when one is engaged upon an historical, philosophical, or scientific problem, and wishes to refer to original sources for information or confirmation. One of our cultivated ladies, in preparing a paper for the historical club to which she belonged, desired to obtain as much information as possible of Louis XIV. of France and his times. Our card catalogue offered some interesting material; but it was of the most familiar character, and very limited.

Some of the most valuable literature of the times is contributed in a condensed form to the quarterly and monthly periodicals, American and foreign. We have made a good beginning in supplying our alcoves in this direction; but very much land in this field of accession remains to be possessed. The invaluable "Index of Periodicals," by Mr. Poole of Chicago, to be continued by him, with the assistance of the Library Association, opens up the richest treasures in all branches of literature, science, and art, for both the amateur and the scholar.

In some of our families full sets, or the earlier series, of such serials as the "Gentleman's Magazine," are preserved. It would be both a graceful and a gratefully-appreciated gift to the Library, if they could be intrusted to our shelves, and made to gladden a wider circle of delighted readers.

One of our citizens who has taken a deep and intelligent interest in the Library, Mr. Samuel P. May, suggests that it would be of service to students if persons owning rare books or collections, if willing to have them consulted, should furnish a list of them to the librarian. He has himself made the Island of Guernsey a special study, and has on his shelves every history of it that has been published, with portfolios of natural scenery, and architectural views and photographs. He has guide-books also to all the Channel Islands. He

mentions in the same note the very full collection of literature relating to the Sandwich Islands, in the possession of Mr. G. D. Gilman of Ward 7.

A large and attractive addition to the Library was made during the visit of Miss James to England and Scotland last summer. Among the most interesting portions of this collection are a fine series of photographs of the English cathedrals, and a rich portfolio of Scotch views. The former will be arranged in volumes, beautifully mounted, with short descriptive notes, and when completed will afford an interesting study, both to those who have visited these historical and noble structures, and to those who have never seen them.

This reference to our art collections, and to the growing use of the Library for purposes of reference and study, reminds us of what is already a very important requisition of the institution, and will become more and more necessary during every succeeding year.

We shall be able to find shelf-room in Edmands Hall for the regular accumulations of the Library for several years to come; but already great inconvenience is experienced by those who come daily to the Library to examine its books of reference, to take notes, and to study up on some subject.

We have no retiring, quiet rooms or alcoves. Our two tables are often crowded both in the afternoon and evening. For the very best services that the Library can offer the community we have the poorest provisions. There is every reason for encouraging this study of the contents of our shelves on the part of our young people and citizens. It is thus both bestowing upon the people a form of liberal education, and creating higher and more improving tastes.

Besides, our art collections need opportunity for their better display. We have no doubt, that, if we had suitable walls on which to hang pictures, we should receive additional works of art like those which now grace our limited space.

Our Art Fund, the gift of a generous and cultivated citizen, annually affords the means of adding to such collections.

What is greatly needed is an additional hall at the rear of the main building. There is an adequate site for this on the Library premises. Being hidden by the front edifice, no ex-

pense for architectural embellishment on the outside would be required. For a comparatively small sum a building could be constructed which would meet these very necessary requisitions for art-room and study, as well as for such additional shelving as will become indispensable a few years hence.

In such a community as ours, it would not seem impossible that some public-spirited citizen endowed with wealth, appreciating this opportunity to make a permanent and very useful gift to the city, might be pleased to connect his name with a new hall erected for these purposes. The large subscriptions from our citizens by which the fine stone edifice was erected, and fifteen thousand volumes placed upon its shelves, when it was made a free gift to the City of Newton, suggest the possibility that such worthy deeds have not exhausted the intelligent generosity of our men of property, and that other names may yet be added to the founders of this popular institution.

We desire to bear our testimony once more to the value of the American Library Association, which holds its annual meetings in different portions of the country. Last August the sixth general convention was held in Buffalo. Nearly a hundred representatives of public and special libraries were in attendance, and the four days' sessions drew together quite a large audience from the city. The very valuable papers and discussions of these congresses of expert librarians and superintendents become of wider and permanent service by their publication in full. All the important questions relating to the administration of libraries, the preservation of the books, the means of rendering the library of the greatest benefit and the least peril to the community, especially the wisest practical measures for connecting the public school and the free libraries, and making the latter administer to the usefulness of the former, are amply discussed, and illustrated by individual experiments, in the progress of these annual gatherings.

These conferences also disclose the treasures of the different collections of books in the country, and, by the combination of workers, provide such important keys to the resources of libraries as the "Index to Periodicals," and other works of a similar description.

The sessions of the association form an admirable normal school for the assistants in libraries, of which an increasing number every year avail themselves.

We see no occasion during the current year for any large expense outside the ordinary requirements of the Library.

The adequate ventilation of the reading-room, which is now used by a large number of persons, is a problem that has not yet been solved. The occupants of the room, particularly in the evening, very justly complain of the stifling and unwholesome atmosphere. If the Committee on Public Buildings can secure relief in this direction, they will receive the hearty thanks of many suffering citizens, both gentlemen and ladies.

Our staff has remained unchanged, and we have reason to hope will continue as heretofore during the present year. Familiar with the contents of the Library, attentive and courteous, they justly receive the warm commendations of those visiting Edmands Hall, and availing themselves of its privileges. The Librarian is our best catalogue, and is able to give and does devote much of her time in aid of those seeking the advantage of our collections who hardly know where to look to find what they require.

It is only becoming on our part to tender our hearty thanks to Hon. W. P. Ellison, our late Mayor, for his unfailing interest in the Library, and his personal attentions to its wants; and to the gentlemen of the City Council for their cheerful and generous appropriations. Several of them have made visits to the Library, looking into its manner of administration, learning the nature of its work throughout the city, and inquiring as to any of its unsatisfied wants. These visits are always heartily welcomed.

The work of the Superintendent has been rendered comparatively light by the ready assistance of the Librarian, and the valuable services, freely offered, of the members of the Board.

Respectfully submitted.

BRADFORD K. PEIRCE, *Superintendent.*

APPENDIX.

A.

RECEIPTS.	1883.	1882.	1881.
Dec. 31.			
Municipal appropriation	\$8,500 00	\$8,000 00	\$7,500 00
Fines, bulletins, etc.	329 32	309 54	333 91
Cash on hand at last report . . .	49 07	18 83	17 28
	\$8,878 39	\$8,328 37	\$7,851 19

B.

EXPENDITURES.	1883.	1882.	1881.
Dec. 31.			
Salaries	\$3,611 94	\$3,410 00	\$3,006 24
Reading-room	345 12	391 25	404 27
Incidentals	300 22	209 73	240 76
Repairs	22 00	46 35	99 18
Furniture and fixtures	53 19	45 30	86 63
Printing and advertising . . .	306 50	35 00	105 77
Binding	252 11	265 90	279 93
Books	2,013 44	1,911 29	1,758 82
Light and fuel	696 15	675 88	742 15
Distributing agencies and express .	1,140 99	1,141 66	977 27
Blanks and stationery	110 93	128 41	119 74
Postage account	22 14	18 46	6 79
Total expenditures	\$8,874 73	\$8,279 23	\$7,827 55
Bal. with City Treasurer . \$01 at the Library . . . 3 65			
Total balance	3 66	49 14	23 64
	\$8,878 39	\$8,328 37	\$7,851 19

C.

CIRCULATION.	1883.	1882.	1881.
Number of days the Library was open	306	305	306
of holidays the Library was closed	7	7	6
of other week-days the Library was closed . . . . .	. .	. .	1
of volumes delivered for home use	83,430	85,701	85,333
Average daily use	272.7	280.9	278.8
Largest daily use March 17 and 31, Feb. 25, and March 18, 1882; Feb. 19, 1881	505	536	526
Smallest daily use Aug. 16, 1883; April 27, 1882; Dec. 26, 1881	144	164	8
Number of books lost and not paid for	10	5	2
of books worn out and withdrawn	46	44	51
of notices to delinquents	787	643	835
of volumes re-covered	11,047	12,295	16,453
of volumes bound	465	556	577
of names registered during the year	850	1,254	631
Total number of names registered,	12,261	11,411	10,157

D.

ACCESSIONS.	1883.	1882.	1881.
Increase by purchase	1,073	1,084	994
by gift	93	54	164
by binding pamphlets	1	. .	5
by binding periodicals	79	69	79
Number of missing volumes re- stored since last report . . . . .	. .	. .	. .
Total accessions for the year	1,246	1,207	1,242
Number of volumes missing or withdrawn since last report	60	49	53
Actual increase	1,186	1,158	1,189
Number of volumes in the Library as last reported	19,360	18,202	17,013
Total number of volumes in the Library	20,546	19,360	18,202
Number of pamphlets bound since last report	5	. .	15
Number of newspapers subscribed for	42	41	39
of newspapers given	20	20	20
of magazines subscribed for	36	32	31
of magazines given	2	4	3
Total number received	100	97	93

E.

CLASSIFICATION, GROWTH, SIZE, AND USE.	Increase dur- ing the Year.	Total Num- ber of Vol- umes.	Volumes is- sued during the Year.	PER CENT OF CIR- CULATION.		
				1883.	1882.	1881.
<i>Literature.</i>						
Prose, fiction, and juvenile reading	180	4,778	56,830	68.1	68.3	69.1
Essays, poetry, and drama,	168	2,567	5,797	6.95	6.4	6.9
Periodicals	63	1,351	1,950	2.3	2.85	2.5
Foreign literature	3	457	275	.3	.5	.34
<i>History.</i>						
Geography and travels . .	118	1,866	5,781	6.9	7.5	7.23
Biography	130	1,966	3,061	3.7	3.97	3.94
History	122	1,899	3,666	4.4	3.96	4.08
<i>Arts and Sciences.</i>						
Natural science and indus- trial arts	131	1,869	4,877	5.9	5.4	5.04
Political and social science,	58	1,024	395	.5	.4	.4
Theology	66	975	699	.83	.52	.34
Reference library	147	1,794	99	.12	.2	.13
Accessions for the year,	1,186	. .	. .	. .	. .	. .
Number of volumes in the Library . . . . .	. .	20,546	. .	. .	. .	. .
Circulation for the year,	. .	. .	83,430	. .	. .	. .

F.

Received for catalogues sold in 1883.	\$20 80
Paid City Treasurer	\$20 80

G.

ESTIMATED EXPENSES FOR THE YEAR ENDING DEC. 31, 1884.

Salaries		\$3,612
Reading-room		350
Incidentals		250
Repairs		50
Furniture and fixtures		60
Printing and advertising		100
Binding		260
Books		2,000
Light and fuel		700
Distributing agencies and express		1,200
Blanks and stationery		120
Postage account		25
		\$8,827
Probable amount of fines	\$300 00	
Cash on hand	3 65	
Required appropriation	8,523 35	
		\$8,827

CITY OF NEWTON.

ANNUAL REPORT

OF THE

CHIEF OF FIRE DEPARTMENT

OF THE

CITY OF NEWTON,

FOR THE YEAR ENDING DEC. 31, 1883.

WITH A STATEMENT OF THE FIRES AND ALARMS, ALSO
LOSSES AND INSURANCE, DURING THE YEAR.



BOSTON:

FRANKLIN PRESS: RAND, AVERY, AND COMPANY.

1884.

CITY OF NEWTON.

IN BOARD OF ALDERMEN, Jan. 21, 1884.

ORDERED, That the Committee on Printing is hereby authorized to have printed five hundred and fifty copies of the Report of the Chief of the Fire Department, expense of same to be charged to the general appropriation for printing.

IN BOARD OF ALDERMEN, Jan. 21, 1884.

Read twice, and adopted; sent down for concurrence.

J. F. KINGSBURY, *Clerk*.

IN COMMON COUNCIL, Jan. 28, 1884.

Read twice, and adopted in concurrence.

ALBERT S. GLOVER, *Clerk*.

Approved Jan. 30, 1884.

J. WESLEY KIMBALL, *Mayor*.

REPORT OF CHIEF ENGINEER.

FIRE DEPARTMENT HEADQUARTERS,
OFFICE OF CHIEF OF DEPARTMENT, CITY HALL,
WEST NEWTON, MASS., Dec. 31, 1883.

To his Honor the Mayor, and City Council.

IN accordance with the requirements of the Ordinance governing the Fire Department of this city, I have the honor to present my Fifth and the Ninth Annual Report of the present system, giving a detailed statement of the manual force and apparatus, a record of fires and cause of same, loss, insurance, and insurance paid, together with such other information as may be of interest to your honorable body.

MANUAL FORCE.

The manual force consists of 79 officers and privates, which are apportioned as follows:—

PERMANENT EMPLOYEES.

- 1 Chief of Department.
- 1 fire-alarm operator.
- 3 engineers of engines.
- 3 drivers of engines.
- 1 driver of truck.
- 1 driver of hose-reel.
- Total, 10.

CALL FORCE.

- 1 Assistant Chief of Department.
- 8 foremen of companies.

8 assistant foremen of companies.

3 stokers of engines.

10 truckmen.

39 hosemen.

Total, 69.

APPARATUS.

The apparatus in service consists of—

3 steam fire-engines (complete).

7 four-wheel horse hose-reels.

1 two-horse truck.

3 coal-tenders.

6 hose and exercise sleighs.

1 Concord buggy, 1 cutter, for Chief of Department.

1 wagon, 1 sleigh, for Fire-Alarm Department.

1 truck platform on runners.

PRESENT CONDITION OF APPARATUS.

No. 1 Engine is in perfect repair. The reel at this station should be fitted with brakes, a tool-locker, and the running gear painted.

No. 2 Engine is in good repair, but requires touching up and varnishing. The reel at this station requires very extended repairs. I would recommend the purchase of a new reel.

No. 3 Engine will require thorough overhauling and extensive repairs throughout. The reel at this station is in good repair, requiring only repair to paint, and varnishing.

No. 1 Truck requires heavier set of rear wheels: otherwise in excellent repair.

No. 4 Reel is in complete order.

No. 5 Reel requires set of brakes and tool-locker: otherwise in good repair.

No. 6 Reel, by order of the City Council, was thoroughly repaired and painted by the Abbott Downing Company the past year, and is now in proper condition for the service required.

No. 7 Reel is in good repair, having been fitted with brakes and tool-locker during the year.

A new wagon should be provided for the Fire-Alarm Department.

HORSES.

Seventeen horses are permanently employed in this department, all, with two exceptions, being in fine order. A new horse should be provided for No. 5 Hose, also one for the Fire-Alarm Department.

New horses were purchased for No. 3 Engine and No. 4 Hose, to replace those unfit for the service.

HOSE.

The present condition of this portion of the equipment is as follows: —

5,950 feet of first-class cotton hose, "American Jacket," distributed to Engines 1, 2, and 3, and No. 4 Hose. In reserve, and in charge of Companies 5, 6, and 7, 5,850 feet of leather hose, in fair condition for hydrant pressure, but unreliable for engine-service. The present distribution of the hose is such that no new hose will be required the coming year.

STATIONS.

NO. 1 STATION.

In accordance with recommendations, the City Council authorized the changing of the bunk-rooms from the rear to the front of the building: this alteration also provided for a "sliding pole." The above changes not only added to the comfort of the employees, but facilitate the quick despatch of men and apparatus in response to alarms.

The Council also authorized the rebuilding of the stable at this station. As at present arranged, future necessities are provided for, as well as the present comfort of the horses. I would renew my recommendations of former years, for the removal of the police-station from the building.

NO. 2 STATION.

This is in good repair. Additional lockers are required in bunk-rooms, and necessary repairs to stalls.

NO. 3 STATION.

Has been painted and otherwise improved the past year, and is now in good repair.

NO. 1 TRUCK STATION.

Is in excellent repair generally. Some of the bunk-rooms require painting, curtains, and carpets. I would suggest the changing of the glass in front doors at this station.

NO. 5 STATION.

This station received necessary repairs the past year, having been painted inside and out, bath-room provided, and otherwise improved. I would recommend repairs to stalls and doors.

The using of this station for a voting precinct is contrary to the best interests of the service; and I would earnestly recommend that the further use of this station for such purposes be discontinued.

NO. 6 STATION.

This requires painting inside and out, but otherwise is in good repair. New front doors have replaced those formerly used, and much-needed ventilation has been provided for the bath-room.

NO. 7 STATION.

Is in good repair. Drainage and ventilation, both of which were urgent necessities, received the early attention of the proper committee. Slight alterations and repairs to stalls should be attended to the coming year.

The "sliding pole" used in Stations 1, 2, 3, and No. 1 Truck, having proved its usefulness, I would recommend its general adoption.

FIRE-ALARM TELEGRAPH.

The Fire-Alarm Telegraph was first introduced under the town government in October, 1873. At that time it consisted of thirty-five miles of wire, divided into four circuits, with fifteen signal-stations, three tower-strikers, four fifteen-inch and two eight-inch gongs. This system has kept pace

in a measure with the growth of the city, and at the present time consists of fifty-three miles of wire, upon which thirty-three additional signal-stations, four tower-strikers, five fifteen-inch and four eight-inch gongs, and four "electric door attachments" have been added. The close of the present year completes ten years of service in this city. During this time it has proved indispensable, not only to the Fire Department, but to the citizens at large, whose interests it has protected at all times.

Most of the poles upon which the wires were placed have become defective and unsafe; particularly is this the case on Waverly Avenue. Repairs of this nature will be required more or less on all the circuits the coming year.

Street widenings and alterations, the enlarging of the track-bed of the Boston and Albany and the Circuit railways, have added very considerably to the expense-account of this department. In accordance with recommendations from this department, the City Council authorized the purchase of two additional signal-stations, which have been placed in circuit as follows: Station 53, Grove Street and Pine-Grove Avenue; station 112, Washington Street and Hunnewell Park. As the placing of signal-stations in desirable localities throughout the city has aided very materially in reducing our fire losses, I would recommend their purchase each year, as public necessity may require.

The eight-inch steam whistle, with the necessary apparatus for working the same, in connection with the fire-alarm, and located upon the Paper-Mills of C. F. Crehore, Esq., March, 1883, was, in accordance with the contract, given a three-months' test, and, the same proving entirely satisfactory, its purchase was authorized by the City Council.

An "electric trip," for the instantaneous releasing of the horses, operating from the "direct circuit," has been placed in Stations 1, 2, 3, and No. 1 Truck. Its object is to improve each second of time in the sending-out of apparatus in response to alarms. Its success has more than justified anticipations, and doubly repaid the small outlay required for its adoption.

TELEPHONE DEPARTMENT.

The present telephone circuit owned by the city, consisting of sixteen miles of wire with fourteen stations, has proved invaluable in facilitating the business of the several departments, and, while receiving the constant attention of this department, is too much crowded to render satisfactory service at all times. To relieve this in a measure, I would recommend that a separate circuit be provided for the Police Department, the construction of which could no doubt be arranged with the Telephone Company at small expense.

HYDRANTS.

The careful attention paid to the condition of the hydrants by the Water Department is shown by the perfect order in which they have been found at all times when required by this department. In accordance with recommendations, the following new hydrants have been located during the year:—

Hovey and Waban Streets.

Newtonville Avenue and Mount Ida Street.

Newtonville Avenue, between Oakland and Howard Streets.

Beacon Street, west of Almshouse.

Elliott, between Mechanic and Oak Streets.

Floral Avenue and Walnut Street.

Ward and Hammond Streets.

Kennilworth and Ivanhoe Streets.

Montrose and Ivanhoe Streets.

In addition to these, the following were placed upon new and old mains:—

Dalby and Watertown Streets.

Fairmount Avenue, west of Centre Street.

Peabody and Washington Streets.

Pearl, 400 feet south of Watertown Street.

Otis, 500 feet west of Murray Street.

Walnut and Mill Streets.

Station, 200 feet south of Glen Avenue.

Monument Avenue, 400 feet east of Waverly Avenue.

Derby and Cherry Streets.

Derby, 400 feet west of Cherry Street.

VISITORS.

The continued interest manifested in the department by our citizens is shown by the registers, which give a total of a thousand visitors during the year.

Visiting hours, ten A.M. till ten P.M.

RECOMMENDATIONS.

The appointing of drivers for the hose-reels is an imperative necessity. The continued increase of the duties of the department, and the growth of the city, demand that these positions be filled with permanent employees. I would respectfully but earnestly ask your careful consideration of this important matter the coming year.

I would recommend a fire-alarm signal-station at Belmont and Arlington Streets, as petitioned for; also one at Greenough and Auburn Streets.

Additional hydrants as follows:—

Cherry, between Webster and River Streets.

Winthrop and Lander Streets.

Cherry and Henshaw Streets.

Margin, between Highland and Chestnut Streets.

Woodland and Vista Avenues.

Vernon Street and Waverly Avenue.

Sargent, between Park and Waverly Avenue.

Arlington and Belmont Streets.

Court Street and Central Avenue.

Beacon Street, opposite W. C. Strong's.

Crystal and Beacon Streets.

Pleasant Street and Lake Avenue.

Glen Avenue and Elgin Street.

I would recommend the adoption of steam for heating purposes for the High School and City Hall buildings, and the placing of fire-alarm stations in the several school-buildings.

That portion of Wards 1 and 2 known as Nonantum, and of Ward 5, as the Highlands, which are growing rapidly, and are without apparatus of any kind, will soon be asking protection. I would suggest a consideration of the merits of chemical engines.

FIRES AND ALARMS.

There has been a total of 101 alarms during the year, an increase of 42 over the preceding year; the prompt attendance of the department in all cases preventing serious losses.

This department has also rendered assistance in response to calls from the Brighton District (Boston), also Wellesley Hills.

For loss, insurance, insurance paid, etc., see Statistics.

INSPECTION OF BUILDINGS.

In accordance with the requirements of Ordinance 13, Sect. 11, governing the inspection of buildings by the Chief of Fire Department, I have to report a total inspection of 118 buildings as follows:—

Buildings, new	107
Buildings, remodelled	10
Buildings condemned as unsafe, and taken down	1

MATERIAL OF CONSTRUCTION.

Wood	113
Stone	3
Brick	2

Above buildings to be occupied as follows:—

Dwellings	99
Stables	11
Schools	2
Stores	2
Storehouses	2
Shop	1

A very general desire on the part of owners and builders to conform to the ordinance has made the duties of the inspecting officer comparatively light.

The outlook for 1884 would indicate a very material increase in the number of buildings to be erected.

APPROPRIATIONS, EXPENDITURES, AND RECEIPTS.

The appropriation for this department for the year ending Dec. 31, 1883, was \$24,000. In addition to this amount,

\$97.51, received for the sale of old material, etc, was, by authority of the City Council, transferred to the above appropriation, making a total of \$24,097.51.

The expenditures for the year have been as per the following statement:—

Salaries	\$14,208 51
Hay, grain, etc.	2,652 00
Coal and wood	1,098 11
Maintenance fire-alarm, 2 fire-alarm stations, erecting the same	1,146 24
Fire-alarm whistle, and erecting the same	744 58
Repairs to apparatus	515 56
Veterinary and medicines	338 70
Gas	289 90
Laundry	259 11
Water-rates for stations	199 50
Miscellaneous, as per books of Auditor	2,242 08
Total	<hr/> \$23,937 79
Appropriation	\$24,097 51
Expended	23,937 79
Balance, transferred into Treasury	<hr/> \$159 72

ACKNOWLEDGMENTS.

In conclusion I may be pardoned for expressing the pride taken in the present condition of the force. The apparatus has at all times been in perfect condition, and the *morale* of the force worthy your special commendation.

The duties of the past year have been particularly exacting upon the call-force, and of a nature never before experienced in the history of the service.

That I am able to present to your honorable body so favorable a report is due in a great measure to the hearty co-operation of his Honor the Mayor, the City Council, and the Chairman and joint Standing Committee on Fire Department. In appreciation of which, permit me to tender my acknowledgments.

To the Assistant Chief of Department, and the officers and members of the force, I am personally indebted for the respect shown me in my official position, and their prompt and cheerful compliance with the requirements of the service ; to the City Marshal and the members of his command, to the several heads of departments and their subordinates, for courtesies tendered during the year.

Respectfully submitted.

H. L. BIXBY,

Chief of Department.

APPENDIX.

JOINT STANDING COMMITTEE ON FIRE DEPARTMENT.

Aldermen. — J. WESLEY KIMBALL, Chairman, HENRY E. COBB.

Councilmen. — W. G. BRACKETT, W. PEIRCE, W. P. HOLDEN, L. E. LELAND (resigned Sept. 1, 1883).

LIST OF OFFICERS.

NAME.	RANK.	HEADQUARTERS.	RESIDENCE.
H. L. Bixby, W. P. Bemis,	Chief of Departm't, Assistant Chief . .	City Hall No. 3 Engine-Station,	Margin Street. Centre & Beacon.

EMPLOYEES AND MEMBERS.

No. 1 ENGINE.

*First-class, double pump, straight frame. Built by Hunneman & Co. 1867.
Placed in service 1868.*

STATION. — WASHINGTON, OPPOSITE NONANTUM STREET.

MEMBERS.	BADGE.	POSITION.	OCCUPATION.	RESIDENCE.
F. D. Graves . . .	15	Foreman, at call,	Printer . .	Carleton Street.
C. W. H. Boulton .	16	Assistant, “	Carpenter .	Washington St.
R. J. Morrisey . .	13	Hoseman, “	Carpenter .	Centre Street.
O. A. Chick . . .	8	Hoseman, “	Painter . .	Engine-Station.
E. P. Burnham . .	9	Hoseman, “	Mason . .	Gardner Street.
N. R. Sylvester . .	6	Hoseman, “	Painter . .	Waverly Avenue.
E. P. Leavitt . . .	7	Hoseman, “	Slater . . .	Engine-Station.
J. McCammon . . .	5	Hoseman, “	Carpenter .	Nonantum Street.
A. Spencer	14	Hoseman, “	Mason . . .	Avon Street.
F. Liddell	11	Hoseman, “	Painter . . .	Engine-Station.
H. C. Lindley . . .	4	Stoker, “	Painter . . .	Engine-Station.
EMPLOYEES.				
F. E. Judkins . . .	2	Engineer . . .	Permanent .	Engine-Station.
F. H. Harrington .	12	Driver	Permanent .	Engine-Station.

DATE.	APPOINTMENTS.	POSITION.
March 1, 1883.	J. McCammon.	Hoseman.
May 1, 1883.	A. Spencer.	Hoseman.
Nov. 1, 1883.	F. Liddell.	Hoseman.

HONORABLE DISCHARGE.

Aug. 15, 1883. E. T. Flaherty.

No. 2 ENGINE.

Second-class, double pump, crane-neck. Amoskeag. Placed in service 1872.
STATION. — WASHINGTON STREET, OPPOSITE LINCOLN PARK.

MEMBERS.	BADGE.	POSITION.	OCCUPATION.	RESIDENCE.
G. H. Haynes . . .	21	Foreman, at call,	Carpenter .	Cherry Street.
F. H. Humphrey . .	23	Assistant, “	Merchant .	Warren Avenue.
J. Q. A. Hawkes . .	26	Hoseman, “	Painter . .	Webster Street.
W. F. Rand	28	Hoseman, “	Car'gemak'r,	Webster Street.
T. W. Alfred	27	Hoseman, “	Carpenter .	Washington St.
R. J. Riley	29	Hoseman, “	Carpenter .	Engine-Station.
W. H. Nicholl . . .	24	Hoseman, “	Carpenter .	Waltham Street.
C. M. Kebbe	30	Hoseman, “	Carpenter .	Waltham Street.
J. W. Crosby	25	Hoseman, “	Carpenter .	Chestnut Street.
A. F. A. G. Libbey .	22	Hoseman, “	Carpenter .	Cherry Street.
G. K. Stacy	19	Stoker, “	Carpenter .	Engine-Station.
EMPLOYEES.				
R. S. Cummings . .	17	Engineer . . .	Permanent .	Engine-Station.
C. L. Berry	18	Driver	Permanent .	Engine-Station.

	DATE.	APPOINTMENTS.	POSITION.
May	1, 1883.	W. H. Nicholl.	Hoseman.
Aug.	1, 1883.	C. M. Kebbe.	Hoseman.
Nov.	1, 1883.	J. W. Crosby.	Hoseman.
Dec.	1, 1883.	A. F. A. G. Libbey.	Hoseman.

HONORABLE DISCHARGE.

May	1, 1883.	J. W. Crosby.
Aug.	1, 1883.	C. J. Crowley.
Nov.	1, 1883.	C. V. Knowles.
Dec.	1, 1883.	F. T. Burgess.

No. 3 ENGINE.

Second-class, double, crane-neck. Amoskeag. Placed in service 1875.
STATION. — WILLOW, BETWEEN CENTRE AND SUMMER STREETS.

MEMBERS.	BADGE.	POSITION.	OCCUPATION.	RESIDENCE.
G. F. Richardson . .	37	Foreman, at call,	Merchant .	Centre Street.
S. F. Chadbourne . .	41	Assistant, “	Carpenter .	Willow Street.
D. McDonald	33	Hoseman, “	Carpenter .	Centre Street.
C. B. Geary	42	Hoseman, “	Carpenter .	Lynan Street.
W. Bliss	39	Hoseman, “	Painter . .	Station Street.
T. R. Frost	40	Hoseman, “	Merchant .	Pleasant Street.
C. Polly	44	Hoseman, “	Carpenter .	Engine-Station.
A. I. English	35	Hoseman, “	Carpenter .	Centre Street.
C. Thompson	36	Hoseman, “	Carpenter .	Engine-Station.
A. W. Thompson . .	46	Hoseman, “	Carpenter .	Lynan Street.
C. A. Peck	45	Stoker, “	Painter . .	Engine-Station.
EMPLOYEES.				
A. D. Colby	32	Engineer . . .	Permanent .	Engine-Station.
A. C. Jewett	43	Driver	Permanent .	Engine-Station.

DATE.	APPOINTMENTS.	POSITION.
<i>March</i> 1, 1883.	A. W. Thompson.	Hoseman.
<i>March</i> 1, 1883.	C. A. Peck.	Promoted to stoker.
<i>Sept.</i> 1, 1883.	A. I. English.	Hoseman.
<i>Sept.</i> 15, 1883.	C. Thompson.	Hoseman.

HONORABLE DISCHARGE.

<i>Aug.</i> 31, 1883.	A. J. Roach.
<i>Sept.</i> 15, 1883.	E. W. Frost.

No. 1 TRUCK.

First-class, skeleton. Built by Buckley & Merritt, Brooklyn, N.Y. Placed in service September, 1879. •

STATION.—WASHINGTON, OPPOSITE WALKER STREET.

MEMBERS.	BADGE.	POSITION.	OCCUPATION.	RESIDENCE.
W. S. Higgins . .	62	Foreman, at call,	Carpenter .	Brooks Avenue.
F. B. Sisson . .	60	Assistant, “	Carpenter .	Wash'gton opp. Lowell.
J. H. Williams . .	66	Truckman, “	Painter . .	Washington St.
O. Dow	87	Truckman, “	Tinsmith .	Murray Street.
T. C. Nickerson . .	68	Truckman, “	Carpenter .	Lowell Street.
H. J. Williams . .	63	Truckman, “	Painter . .	At Station.
J. Beals	64	Truckman, “	Merchant .	Washington St.
C. Coleman . . .	61	Truckman, “	Carpenter .	Allston Street.
U. H. Dyer . . .	65	Truckman, “	Merchant .	Lowell Street.
J. Watts	69	Truckman, “	Carpenter .	Murray Street.
M. McLeod . . .	71	Truckman, “	Carpenter .	At Station.
J. F. Horrigan . .	70	Truckman, “	Painter . .	Washington St.
EMPLOYEE.				
C. Murphy . . .	59	Driver	Permanent .	At Station.

DATE.	APPOINTMENTS.	POSITION.
<i>May</i> 1, 1883.	J. F. Horrigan.	Transferred from No. 4 Hose.
<i>Aug.</i> 1, 1883.	J. Murphy.	Truckman.
<i>Sept.</i> 1, 1883.	J. Watts.	Truckman.
<i>Nov.</i> 1, 1883.	M. McLeod.	Truckman.

HONORABLE DISCHARGE.

<i>Aug.</i> 1, 1883.	J. Watts.
<i>Sept.</i> 1, 1883.	J. H. Gilman.
<i>Nov.</i> 1, 1883.	J. Murphy.

No. 4 HOSE.

Four-wheel, crane-neck. Built by Abbott Downing Co. Placed in service September, 1882.

STATION.—WASHINGTON, OPPOSITE WALKER STREET.

MEMBERS.	BADGE.	POSITION.	OCCUPATION.	RESIDENCE.
E. C. Waterhouse .	52	Foreman, at call.	Carpenter .	Walnut & Wash.
E. P. Besse . . .	51	Assistant, “	Carpenter .	Brooks Avenue.
J. Deery	49	Hoseman, “	Carpenter .	At Station.
A. J. Wandless . .	47	Hoseman, “	Carpenter .	Allston Street.
D. Archibald . . .	50	Hoseman, “	Shoemaker .	At Station.
EMPLOYEE.				
J. E. Watson . . .	48	Driver	Permanent .	At Station.

DATE.	APPOINTMENTS.	POSITION.
May 1, 1883.	J. E. Watson.	Promoted to driver.
Aug. 1, 1883.	E. P. Besse.	Promoted to Ass't Foreman.
Aug. 1, 1883.	A. J. Wandless.	Hoseman.

RESIGNED.

Aug. 1, 1883.	J. Fontaine.
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No. 5 HOSE.

Four-wheel, crane-neck. Built by Hunneman & Co. Placed in service 1874.

STATION.—AUBURN, ABOVE MELROSE STREET.

MEMBERS.	BADGE.	POSITION.	OCCUPATION.	RESIDENCE.
W. F. Soule . . .	53	Foreman, at call.	Carpenter .	Central Street.
J. F. Washburn .	55	Assistant, “	Painter . .	At Station.
J. M. Taylor . . .	54	Hoseman, “	R.R. Emp. .	At Station.
J. Frost	57	Hoseman, “	Shoemaker .	Auburn Street.
L. H. Spaulding .	58	Hoseman, “	Butcher . .	At Station.

DATE.	APPOINTMENTS.	POSITION.
Aug. 1, 1883.	J. M. Taylor.	Hoseman.
Sept. 1, 1883.	L. H. Spaulding.	Hoseman.

RESIGNED.

Sept. 1, 1883.	C. H. Drake.
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No. 6 HOSE.

Four-wheel, crane-neck. Built by Hunneman & Co. 1877; rebuilt by Abbott Downing Co. 1883.

STATION.—WASHINGTON, ABOVE WALES STREET.

MEMBERS.	BADGE.	POSITION.	OCCUPATION.	RESIDENCE.
B. Early	75	Foreman, at call,	Paper-maker	At Station.
H. H. Miles . . .	77	Assistant, “	Carpenter .	Grove Street.
D. J. Corcoran . .	76	Hoseman, “	Carder . .	At Station.
P. O'Neil	79	Hoseman, “	Watchman .	At Station.
D. J. Cooney . . .	78	Hoseman, “	Carder . .	At Station.
G. T. Clatworthy .	74	Hoseman, “	Paper-maker	At Station.

DATE.	APPOINTMENTS.	POSITION.
<i>Feb.</i> 1, 1883.	H. H. Miles.	Hoseman.
<i>Feb.</i> 1, 1883.	P. O'Neil.	Hoseman.
<i>April</i> 1, 1883.	D. J. Cooney.	Hoseman.
<i>Aug.</i> 1, 1883.	G. T. Clatworthy.	Hoseman.
<i>Aug.</i> 1, 1883.	H. H. Miles.	Promoted Assist. Foreman.

HONORABLE DISCHARGE.

<i>Feb.</i> 1, 1883.	W. B. Kenny.
<i>Feb.</i> 1, 1883.	B. C. Fisher.
<i>Feb.</i> 1, 1883.	F. H. Smith.
<i>Aug.</i> 1, 1883.	C. S. Morse.

No. 7 HOSE.

Four-wheel, crane-neck. Built by Hunneman & Co. Placed in service 1879.

STATION.—PETTEE STREET, REAR PROSPECT SCHOOL.

MEMBERS.	BADGE.	POSITION.	OCCUPATION.	RESIDENCE.
W. S. Cargill . . .	82	Foreman, at call,	Carpenter .	High Street.
H. A. Smith . . .	84	Assistant, “	Carpenter .	Rockland Place.
J. E. Trowbridge .	81	Hoseman, “	Merchant .	High Street.
J. T. Thomason . .	80	Hoseman, “	Merchant .	Chestnut Street.
A. E. Easterbrook .	86	Hoseman, “	Machinist .	At Station.
A. M. Fuller . . .	83	Hoseman, “	Coachman .	Cottage Hill.

STATEMENT OF DUTY PERFORMED BY EACH COMPANY FOR THE
YEAR ENDING DEC. 31, 1883.

APPARATUS.	LADDERS IN SERVICE.	HOSE IN SERVICE.	MILES TRAVELLED.	LENGTH OF SERVICE.
	Feet.	Feet.		Hours.
No. 1 Truck	495	-	197	64
No. 1 Engine	-	3,900	43	24 25
No. 2 Engine	-	5,350	64	47.15
No. 3 Engine	-	7,050	83	50.25
No. 4 Hose	-	2,200	110	32.35
No. 5 Hose	-	2,400	25	14
No. 6 Hose	-	1,400	35	16
No. 7 Hose	-	1,700	93	28
Grand Total	495	24,000	650	276

NUMBER OF ALARMS ATTENDED.

	BELL.	SPECIAL.	VERBAL AND TELEPHONE.	TOTAL.
Chief of Department . .	59	2	12	73
Assistant Chief	24	-	7	31
No. 1 Truck	61	-	2	63
No. 1 Engine	19	2	2	23
No. 2 Engine	26	-	6	32
No. 3 Engine	31	-	7	38
No. 4 Hose	35	-	2	37
No. 5 Hose	13	-	5	18
No. 6 Hose	12	-	5	17
No. 7 Hose	31	-	4	35

FIRE-ALARM TELEGRAPH.

CITY BUILDING, WILLOW STREET.

NAME.	BADGE.	POSITION.	RESIDENCE.
G. W. Ulmer	1	Operator	Maple Avenue.

LOCATION OF TOWER-BELLS.

LOCATION.	STREET.	WEIGHT.
Congregational Church .	Centre and Church Streets . .	3,600 lbs.
Methodist Church . . .	Walnut, bet. Newtonville Ave. and Bowers Street	1,200 "
City Hall	Washington and Cherry Streets,	2,650 "
Congregational Church .	Hancock St. and Woodland Ave.	3,250 "
Crehore Paper-Mills . .	Washington and Hamilton Sts.	8-inch whistle.
Methodist Church . . .	Summer Street	1,500 lbs.
Mason School	Beacon and Station Streets . .	2,000 "

LOCATION AND SIZE OF GONGS.

No. 1 Engine-Station	. . . . .	15-inch.
No. 2 " "	. . . . .	15 "
No. 3 " "	. . . . .	15 "
No. 1 Truck-Station	. . . . .	16 "
No. 5 Hose-Station	. . . . .	8 "
No. 6 " "	. . . . .	15 "
No. 7 " "	. . . . .	16 "
Residence of Chief of Department	. . . . .	8 "
Residence of Assistant Chief	. . . . .	8 "
Residence of Fire-Alarm Operator	. . . . .	8 "
Water-Works Pumping-Station	. . . . .	8 "
Residence of Otis Pettee (private)	. . . . .	8 "
Factory, M. G. Crane (private)	. . . . .	16 "

LOCATION OF SIGNAL-STATIONS.

STATIONS.

4. Auburn and Lexington Streets (Auburndale).
5. No. 6 Hose-Station (Lower Falls).
6. No. 7 Hose-Station (Upper Falls).
7. Station Street and Glen Avenue (Newton Centre).
8. Beacon and Hammond Streets (Chestnut Hill).
9. Brookline and Dedham Streets (Oak Hill).
12. Park and Church Streets (Newton).
13. Sargent and Centre Streets (Newton).
14. Washington and Jewett Streets (Newton).
15. No. 1 Engine-Station (Newton).
16. Church and Centre Streets (Newton).
17. School and Pearl Streets (Newton).
18. Newtonville Avenue and Howard Street (Newton).
112. Washington and Hunnewell Park.
21. No. 1 Truck-Station (Newtonville).
23. Washington and Walnut Streets (Newtonville).
24. Chapel and Watertown Streets (North Village).
25. Crafts and Watertown Streets (North Village).
26. Walnut Street, opposite High School (Newtonville).
27. Highland Avenue and Allston Street (Newtonville).
28. Walnut and California Streets (Newtonville).
31. Waltham and Washington Streets (West Newton).
32. River and Pine Streets (West Newton).
34. Waltham and Derby Streets (West Newton).
35. No. 2 Engine-Station (West Newton).
36. Fuller and Washington Streets (West Newton).
37. Otis and Fountain Streets (West Newton).
312. Police Headquarters, City Hall (West Newton).

STATIONS.

41. Auburn and Charles Streets (Riverside).
42. Woodland Avenue and Grove Street (Auburndale).
43. Ash and Islington Streets (Auburndale).
51. Washington and Concord Streets (Lower Falls).
52. City Almshouse.
53. Grove Street and Pine-Grove Avenue.
61. Chestnut and Winter Streets (Upper Falls).
62. Chestnut and Oak Streets (Upper Falls).
63. Mechanic and Elliott Streets (Upper Falls).
64. Walnut Street, rear Circuit Railway Depot (Highlands).
65. Cook and Boylston Streets (Highlands).
612. Otis Pettee & Co.'s Machine-Shops (private), (Upper Falls).
71. Walnut Street and Cemetery Gate.
72. Crain & Co.'s Machine-Shop (private), (Highlands).
73. No. 3 Engine-Station (Newton Centre).
74. Beacon Street and Laurel Avenue (Newton Centre).
75. Cypress and Paul Streets (Newton Centre).
81. Ward Street and Waverly Avenue (Newton Centre).
82. Kenrick Street and Waverly Avenue (Newton).
91. Clark and Parker Streets (Oak Hill).

INSTRUCTIONS.**Cautions to Persons holding Signal-Box Keys.**

Never open a box, or touch the apparatus, except in case of fire.

Never sound the alarm for a fire seen at a distance, unless assistance is called for.

Be reasonably sure there is a fire before sounding the alarm.

Be sure your box is locked before leaving it.

Never let the key go out of your possession, except to some responsible person to give an alarm of fire, and be sure the key is returned.

If you remove from your house or place of business, return the key to the Chief of Fire Department, City Hall.

Directions in Case of Fire.

Get the key to the nearest box to the fire. Open the box; pull the hook all the way down once, and let go. If you hear no sound from the bells, or tapper in the box, pull again. If you fail the second time, go to the next nearest box, and do the same; but do not touch any other box if the nearest one gives the alarm.

Remain at the box, if possible, after giving an alarm, to direct the firemen to the fire.

No person will give alarms for the same fire, after the first alarm has been given, without an order from the Chief or Assistant Engineer.

Citizens are earnestly requested to keep themselves informed as to the

location of keys to signal-boxes. Signs over each box will give the desired information.

School Signals.

1-111 (thirteen) once. — Morning session, 8.15 A.M.; afternoon session, 1.15 P.M.

Signals.

1. — Blow for test at 11.45 A.M. and 5.45 P.M. (Sundays, 12.15 P.M.).

1-1. — Two blows will be given when the companies in service at fires have "made up."

Should an alarm occur from another box before the signal is struck, companies answering second will immediately answer on first, companies answering third will answer second.

1-1-1 (three blows). — General alarm, and calls entire Fire Department.

14 blows followed by the box number will assemble the police in case of emergency.

11-11 (twenty-two). — Signal of No. 1 Engine when called out of city; same on return.

1-1-1 (three blows). — Signal of No. 2 Engine when called out of city; same on return.

111-111 (thirty-three). — Signal of No. 3 Engine when called out of city; same on return.

H. L. BIXBY,

Chief Fire Department,

(Room 3, City Hall).

Office-hours 2 to 5 P.M.

MAY, 1883.

**STATEMENT OF DETAILS OF FIRES AND ALARMS FOR
THE YEAR ENDING DEC. 31, 1883.**

Jan. 6, Box 15, 9.50 A.M. Washington Street and Hunnewell Park.

Two-story frame 25×40 dwelling. Owned and occupied by Henry Tolman, jun. Loss on building and contents, \$175. Insurance paid, \$175. Cause of fire, improper construction of open grate. Apparatus present: No. 1 Engine, No. 4 Hose, No. 1 Truck. Chief of Department. Service, forty-five minutes.

Feb. 19, Box 5, 8.15 P.M. Wellesley Hills.

Cause, call for assistance. Apparatus detailed: No. 2 Engine, Nos. 4, 5, and 6 Hose, No. 1 Truck. Chief of Department. Service, one hour.

Feb. 22, Box 71. Walnut Street and Cemetery Gate.

Cause, inspection-test by his Honor the Mayor and Fire Committee. Apparatus present: Nos. 2 and 3 Engines, Nos. 4 and 7 Hose, No. 1 Truck. Chief and Assistant Chief of Department.

March 2, Box 61, 3.52 P.M. Boylston and High Streets.

Three-story frame 30×40 dwelling. Owned and occupied by John Richardson. No damage. Cause, children playing with matches. Apparatus present: No. 3 Engine, No. 7 Hose, No. 1 Truck. Chief and Assistant Chief of Department. Service, twenty minutes.

March 12, "Special 22," 9.40 P.M. Boston (Brighton District).

Cause, call for assistance. Apparatus detailed: No. 1 Engine. Chief of Department. Service, two hours.

April 4, Box 71, 9.30 A.M. Cold Spring City.

Story and a half 12×20 dwelling. Owned by Mathew Connors, occupied by Moses Bright. No damage. Cause, smoking in bed. Apparatus present: No. 3 Engine, Nos. 4 and 7 Hose, No. 1 Truck. Chief and Assistant Chief of Department.

April 4, Box 73. Pleasant Street.

One-story frame 10×12 ice-house. Owned by C. S. Davis. Loss on building and contents, \$250. No insurance. Cause of fire, ignition from burning grass-land. Apparatus present: No. 3

Engine, No. 7 Hose, No. 1 Truck. Chief and Assistant Chief of Department. Service, one hour.

April 9, 2.30 P.M. Washington Street.

Grass-land. Cause, set by children. Extinguished by permanent employees of No. 2 Engine. Service, fifteen minutes.

April 9, Still, 8.30 P.M. Mill Street.

Woods. Cause unknown. Apparatus present: detail from No. 3 Engine. Assistant Chief of Department. Service, thirty minutes.

April 10, 10 A.M. Washington Park.

Grass-fire. Cause, getting beyond control. Extinguished by Driver Murphy, No. 1 Truck.

April 11, 5.30 P.M. Lander Street.

Grass. Cause, carelessness. Extinguished by permanent employees of No. 2 Engine.

April 16, Box 65, 11.43 A.M. Elliott and Boylston Streets.

Grass-land. Cause, getting beyond control. Apparatus present: No. 3 Engine, No. 7 Hose, No. 1 Truck. Chief and Assistant Chief of Department. Service, one hour.

April 17, 11.30 A.M. Grove Street.

Grass-land. Cause, sparks from stationary engine. Apparatus present: No. 6 Hose. Capt. Early. Service, one hour.

April 17, 1 P.M. Grove Street.

Rekindling of above. Apparatus present: No. 6 Hose. Capt. Early. Service, thirty minutes.

April 18, 12.30 P.M. Sargent Street.

Grass-land. Cause, getting beyond control. Apparatus present: No. 1 Engine. Chief of Department. Service, thirty-five minutes.

April 21, Box 64, 8.30 P.M. Walnut and Beacon Streets.

Woodland. Cause, getting beyond control. Apparatus present: No. 3 Engine, No. 7 Hose, No. 1 Truck. Chief and Assistant Chief of Department.

April 26, Box 6, 11.46 A.M. Boylston Street.

Woods. Cause, getting beyond control. Apparatus present:

No. 3 Engine, No. 7 Hose, No. 1 Truck. Chief and Assistant Chief of Department. Service, thirty minutes.

April 27, Box 64, 12.36 P.M. Forest Street.

Woodland. Cause, maliciously set. Apparatus present: No. 3 Engine, No. 7 Hose, No. 1 Truck. Chief of Department. Service, one hour.

April 29, Box 17, 1.05 P.M. Pearl Street.

Two-story frame 18×30 dwelling. Owned by J. Dougherty, occupied by John Flood. Damage, \$150. Cause of fire, children playing with matches. Apparatus present: No. 1 Engine, No. 4 Hose, No. 1 Truck. Chief of Department. Service, one hour.

April 30, Box 26, 1 P.M. Cabot Street.

Woodland. Cause, getting beyond control. Apparatus present: Nos. 1 and 2 Engines, No. 4 Hose, No. 1 Truck. Chief of Department. Service, one hour.

April 30, Box 7, 1.35 P.M. Dudley Street.

Woodland. Cause, getting beyond control. Apparatus present: No. 3 Engine, No. 7 Hose, No. 1 Truck. Chief and Assistant Chief of Department. Service, two hours.

May 1, Box 42, 1 P.M. Vista Avenue.

Woodland. Cause, getting beyond control. Apparatus present: No. 2 Engine, Nos. 4, 5, and 6 Hose, No. 1 Truck. Chief of Department. Service, one hour.

May 6, 9 P.M. Waltham Street.

Two-story frame 20×30 blacksmith's shop. Owned and occupied by P. Kegan. Loss, \$15. Cause, fire from forge. Extinguished by officer Holmes and Chief of Department.

May 9, 12 M. Park and Church Streets.

Two and a half story 30×50 dwelling. Owned and occupied by John Stetson. Cause, chimney-fire. Loss, \$25. Apparatus present: No. 1 Engine. Capt. Graves. Service, one hour.

May 10, 10 P.M. Walnut and Hull Streets.

Woodland. Cause, neglected bonfire. Apparatus present: No. 4 Hose, No. 1 Truck. Chief of Department. Service, one hour.

May 13, Box 52, 3.10 P.M. Chestnut Street.

Woodland. Cause, maliciously set. Apparatus present: No. 3 Engine, Nos. 6 and 7 Hose, No. 1 Truck. Chief and Assistant Chief of Department.

May 14, 2.30 P.M. Chestnut and Valentine Streets.

Woodland. Cause, maliciously set. Apparatus present: No. 2 Engine. Chief of Department. Service, two hours.

May 14, Box 9, 3.40 P.M. Brookline and Dedham Streets.

Rubbish on premises W. S. Appleton. No damage. Apparatus present: No. 3 Engine, No. 7 Hose. Chief and Assistant Chief of Department. Service, one hour and thirty minutes.

May 14, 7.24 P.M. Chestnut Street.

Woodland. Cause, set by children. Extinguished by Assistant Foreman Smith, No. 7 Hose.

May 15, 5.35 P.M. Rogers Street.

Railway-sleepers. Cause, locomotive-sparks. Loss, \$50. Extinguished by Smith and Easterbrook, No. 7 Hose. Service, two hours.

May 19, 1 P.M. Winchester Street.

Story and a half frame 28 x 40 stable. Owned by H. F. Wetherill. Unoccupied. Cause, sparks from burning woodland. No alarm, owing to distance from fire and water limits. Loss, \$300.

May 19, 2 P.M. Homer and Morton Streets.

Woodland. Cause, maliciously set. Apparatus present: No. 3 Engine. Assistant Chief of Department. Service, one hour and forty minutes.

May 19, Box 9, 3 P.M. Brookline Street.

Woodland. Neglected brush-fires. Apparatus present: No. 3 Engine, No. 7 Hose. Chief and Assistant Chief of Department. Service, one hour and thirty minutes.

May 26, Box 72, 7.55 P.M. Rogers Street.

Railway-sleepers. Cause, locomotive-sparks. Loss, \$15. Apparatus present: No. 3 Engine, No. 7 Hose, No. 1 Truck. Chief of Department. Service, one hour.

May 28, Box 4, 3.17 P.M. Freeman Street.

One-story frame 30 × 40 stable and greenhouse. Owned and occupied by W. Neilson. Loss, \$1,100. Cause, children playing with matches. Apparatus present: No. 2 Engine, Nos. 4, 5, and 6 Hose, No. 1 Truck. Chief of Department. Service, two hours.

May 28, Box 17, 9.05 P.M. Pearl Street.

Two-story frame 14 × 28 dwelling. Owned by John Joice. Unoccupied. No damage. Cause, incendiary. Apparatus present: No. 1 Engine, No. 4 Hose, No. 1 Truck. Chief of Department. Service, fifteen minutes.

June 21, Box 73, 9.15 P.M. Station and Chase Streets.

One and a half story frame 20 × 30 stable. Owned and occupied by Warren Ellis. Loss, \$10. Cause, incendiary. Apparatus present: No. 3 Engine, No. 7 Hose, No. 1 Truck. Chief and Assistant Chief of Department. Service, forty-five minutes.

June 26, Box 4, 3.35 P.M. Auburn Street.

Grass and fences. Cause, locomotive-sparks. Apparatus present: No. 2 Engine, Nos. 4, 5, and 6 Hose, No. 1 Truck. Chief of Department. Service, fifteen minutes.

July 3, Box 28, 10.53 P.M. Fewkes Court.

One-story frame 25 × 30 knitting-factory. Owned by Francis Murdock, occupied by Daniel Sears. Loss, \$600. Cause, incendiary. Apparatus present: Nos. 1 and 2 Engines, No. 4 Hose, No. 1 Truck. Chief of Department. Service, one hour and thirty minutes.

July 4, Box 17, 9.13 A.M. Waban Street.

Two and a half story frame 28 × 40 dwelling. Owned by J. R. Farnham, occupied by Mrs. Benjamin Turner and others. Loss, \$175. Cause, fireworks. Apparatus present: No. 1 Engine, No. 4 Hose, No. 1 Truck. Chief of Department. Service, one hour.

July 11, Box 17, 1.55 P.M. School Street.

One-story frame 20 × 30 blacksmith's shop. Owned by ——— Harrigan; occupant, P. W. Gilligan. No damage. Cause, careless smoker. Apparatus present: No. 1 Engine, No. 4 Hose, No. 1 Truck. Assistant Chief of Department. Service, thirty minutes.

July 23, Box 25, 1.30 P.M. Crafts Street.

Two and a half story frame 25 × 50 dwelling. Owned by A. C. Taylor; occupant, C. H. Johnson. Loss, \$25. Cause, children playing with matches. Apparatus present: Nos. 1 and 2 Engines, No. 4 Hose, No. 1 Truck. Chief of Department. Service, thirty minutes.

July 26, 11.15 P.M. Chestnut Street.

Railway-sleepers. Cause, locomotive-sparks. Loss, \$15. Apparatus present: No. 7 Hose. Foreman Cargill. Service, one hour.

Aug. 3, Box 21, 12.55 A.M. Murray Street.

Two-story frame 20 × 30 dwelling. Owned and occupied by Daniel Sullivan. Loss, \$1,000. Building total loss; out of water-limits. Cause, incendiary. Apparatus present: Nos. 1 and 2 Engines, No. 4 Hose, No. 1 Truck. Chief of Department. Service, one hour.

Aug. 5, Box 65, 2.20 A.M. Brookline.

Aug. 5, Box 73, 2.25 A.M. Brookline.

Unnecessary alarms given by police for fire out of city.

Aug. 13, Box 34, 7.18 P.M. Waltham Street.

Two-story frame 40 × 80 stable. Owned and occupied by L. A. Hall. Loss, \$1,783 50. Cause, struck by lightning. Apparatus present: No. 2 Engine, Nos. 4 and 5 Hose, No. 1 Truck, afterwards relieved by details from Nos. 1 and 3 Engines. Officers in charge, Chief and Assistant Chief of Department. Service, fifteen hours.

Aug. 17, 8.15 P.M. Maple Place.

Peat-meadow. Cause, set by children. Apparatus present: detail from No. 2 Engine. Chief of Department. Service, one hour.

Aug. 19, Box 52, 9 A.M. Homer Street.

Two-story frame 12 × 25 stable. Owned and occupied by John McCarty. Cause, smoking in building. Loss, \$200. Building totally destroyed; out of water-limits. Apparatus present: No. 3 Engine, No. 7 Hose, No. 1 Truck. Chief and Assistant Chief of Department. Service, one hour.

Aug. 22, Box 51. Wellesley Hills.

Cause, call for assistance. Apparatus detailed: No. 2 Engine, Nos. 4, 5, and 6 Hose, No. 1 Truck. Chief of Department. Service, one hour and thirty minutes.

Aug. 26, 1 P.M. Homer Street.

Grass. Cause, set by children. Apparatus present: No. 3 Hose. Chief and Assistant Chief of Department. Service, one hour.

Aug. 26, Box 9, 4.15 P.M. Brookline and Dedham Streets.

Old rubbish. No damage. Cause, incendiary. Apparatus present: No. 3 Engine, No. 7 Hose. Chief and Assistant Chief of Department. Service, one hour and thirty minutes.

Aug. 28, 12 M. River and Cherry Streets.

Grass and fences. Cause, set by children. Apparatus present: No. 2 Hose. Chief of Department.

Aug. 29, Box 52, 4.50 P.M. Beacon and Washington Streets.

Woodland. Cause, set by children. Apparatus present: No. 3 Engine, Nos. 6 and 7 Hose, No. 1 Truck. Chief and Assistant Chief of Department. Service, thirty minutes.

Aug. 31, Box 71, 12.55 P.M. Cold-Spring City.

Two buildings; one-story frames, 10 × 20, 15 × 30, stables. Owned by Mary McVeley. Loss, \$75. Cause, children playing with matches. Apparatus present: No. 3 Engine, Nos. 4 and 7 Hose, No. 1 Truck. Chief and Assistant Chief of Department. Service, one hour and thirty minutes.

Aug. 31, 10 P.M. Glen Avenue.

Woodland. Cause, locomotive-sparks. Apparatus present: No. 3 Hose. Assistant Chief of Department. Service, seven hours.

Sept. 1, 1.40 P.M. Auburndale Avenue.

Woodland. Cause, set by children. Apparatus present: No. 5 Hose. Capt. Soule. Service, one hour.

Sept. 2, 12.40 P.M. Grove Street.

Woodland. Cause, sparks from steam-shovel. Apparatus present No. 6 Hose. Capt. Early. Service, two hours.

Sept. 2, Box 7, 3.40 P.M. Glen Avenue.

Woodland. Cause, rekindling previous fire. Apparatus present, No. 3 Engine, No. 7 Hose, No. 1 Truck. Chief and Assistant Chief of Department. Service, one hour.

Sept. 2, 8 P.M. Chestnut Hill.

Woods. Cause, rekindling. Apparatus present: No. 3 Hose. Chief of Department. Service, one hour.

Sept. 3, Box 81, 3 A.M.

Two-story frame 20 × 30 dwelling. Owned by Silas Stevens, unoccupied. Loss, \$500. Cause, incendiary. Apparatus present: Nos. 1 and 3 Engines, No. 4 Hose, No. 1 Truck. Chief and Assistant Chief of Department. Service, three hours.

Sept. 3, 1 P.M. Auburndale Avenue.

Woodland. Cause, set by children. Apparatus present: No. 5 Hose. Chief of Department. Service, one hour.

Sept. 3, 2.30 P.M. Washington Place.

Grass and fences. Cause, locomotive-sparks. Apparatus present: No. 4 Hose. Chief of Department. Service, forty-five minutes.

Sept. 6, Box 8, 1.40 P.M. Beacon Street.

Woods. Cause, locomotive-sparks. Apparatus present: No. 3 Engine, No. 7 Hose, No. 1 Truck. Chief and Assistant Chief of Department. Service, one hour.

Sept. 6, Box 9, 2.25 P.M. Dedham Street.

Woodland. Cause, careless burning of refuse. Apparatus present: Nos. 1 and 3 Engines, No. 7 Hose. Chief and Assistant Chief of Department. Service, one hour and thirty minutes.

Sept. 6, Box 73, 4.37 P.M. Beacon Street.

Woods. Cause, rekindling of previous fire. Apparatus present: No. 3 Engine, No. 7 Hose, No. 1 Truck. Chief and Assistant Chief of Department. Service, thirty minutes.

Sept. 6, Box 73, 11.01 P.M. Beacon Street.

Woods. Cause, rekindling of previous fire. Alarm unnecessary. Apparatus present: No. 3 Engine, No. 7 Hose, No. 1 Truck. Chief and Assistant Chief of Department. Service, thirty minutes.

Sept. 8, Box 42, 1.59 P.M. Woodland Avenue.

Woods. Cause, set by children. Apparatus present: No. 2 Engine, Nos. 4, 5, and 6 Hose, No. 1 Truck. Chief of Department. Service, thirty minutes.

Sept. 8, 3 P.M. Auburndale Avenue.

Woods. Cause, set by children. Apparatus present: No. 5 Hose. Capt. Soule. Service, thirty minutes.

Sept. 8, 3.40 P.M. Greenough Street.

Woods. Cause, rekindling of previous fire. Apparatus present: No. 5 Hose. Capt. Soule. Service, thirty minutes.

Sept. 9, 7.10 P.M. Elgin Street.

Woods. Cause, rekindling of previous fire. Apparatus present: No. 3 Hose. Assistant Chief of Department. Service, one hour.

Sept. 9, 10 P.M. Washington and Fuller Streets.

Woods. Cause, rekindling of previous fire. Extinguished by private Riley and Chief of Department.

Sept. 11, Box 7, 1.46 P.M. Station Street and Glen Avenue.

Woods. Cause, rekindling of previous fire. Apparatus present: No. 3 Engine, No. 7 Hose, No. 1 Truck. Chief of Department. Service, one hour.

Sept. 11, Box 7, 3.46 P.M. Station Street and Glen Avenue.

Woods. Cause, rekindling of previous fire. Alarm unnecessary. Apparatus present: No. 3 Engine, No. 7 Hose, No. 1 Truck. Chief of Department. Service, one hour.

Sept. 12, Box 7, 6.33 P.M. Glen Avenue.

One-story frame 8 × 10 shop. Owned and occupied by A. M. Gooch. Loss, \$50. Cause, locomotive-sparks. Apparatus present: No. 3 Engine, No. 7 Hose, No. 1 Truck. Chief of Department. Service, one hour.

Sept. 15, Box 4, 4.10 P.M. Auburn Street.

Two and a half story frame 25 × 50 dwelling. Owned and occupied by B. J. Parker. No damage. Cause of alarm, escaping smoke from unfinished flue. Apparatus present: No. 2 Engine, Nos. 4, 5, and 6 Hose, No. 1 Truck. Chief of Department. Service, fifteen minutes.

Sept. 15, 10 P.M. Walnut Street.

Woods. Cause, maliciously set. Extinguished by private Fuller, No. 7 Hose. Service, one hour.

Sept. 19, Box 32, 12.35 P.M. River and Cherry Streets.

Grass and fences. Cause, set by children. Apparatus present: No. 2 Engine, Nos. 4 and 5 Hose, No. 1 Truck. Chief of Department.

Sept. 20, Box 24, 7.45 A.M. Dalby Street.

Two-story frame 14 × 28 dwelling. Owned by John T. Moore, occupied by William Huldsworth. Loss, \$105. Cause, children playing with matches. Apparatus present: Nos. 1 and 2 Engines, No. 4 Hose, No. 1 Truck. Chief of Department. Service, one hour and thirty minutes.

Sept. 20, Box 71, 12.13 P.M. Walnut Street.

Grass and fences. Cause, careless burning of undergrowth. Apparatus present: No. 3 Engine, Nos. 4 and 7 Hose, No. 1 Truck. Chief of Department. Service, thirty minutes.

Sept. 20, 3.30 P.M. Grove Street.

Grass-land. Cause, sparks from stationary engine. Apparatus present: No. 6 Hose. Service, one hour.

Sept. 23, Box 91, 3.17 P.M. Parker Street.

Grass-land. Cause, sparks from brush-fire. Apparatus present: No. 3 Engine, No. 7 Hose, No. 1 Truck. Chief of Department. Service, one hour.

Sept. 27, Box 32, 3.30 P.M. Rowe Street and Auburndale Avenue.

Woods. Cause, set by children. Apparatus present: No. 2 Engine, Nos. 4 and 5 Hose, No. 1 Truck. Chief of Department.

Sept. 28, Box 35, 8.35 P.M. Prospect Street (Extension).

One-story frame 10 × 15 stable. Owned and occupied by Samuel Rossa. Loss, \$25. Cause, incendiary. Apparatus present: No. 2 Engine, Nos. 4, 5, and 6 Hose, No. 1 Truck. Chief of Department. Service, one hour.

Oct. 8, Box 25, 11.45 A.M. Crafts Street.

Grass. Cause, set by children. Apparatus present: Nos. 1 and 2 Engines, No. 4 Hose, No. 1 Truck. Chief of Department.

Oct. 10, Box 25, 1 P.M. Crafts Street.

Grass, etc. Cause, rekindling of previous fire. Apparatus present: Nos. 1 and 2 Engines, No. 4 Hose, No. 1 Truck. Assistant Chief of Department.

Oct. 10, 9 P.M. Auburndale Avenue.

Woods. Cause, careless burning of brush. Apparatus present: No. 5 Hose. Chief of Department.

Oct. 12, Box 32, 10 P.M. Auburndale Avenue.

Burning brush. Alarm unnecessary. Apparatus present: No. 2 Engine, Nos. 4 and 5 Hose, No. 1 Truck. Chief of Department. Service, thirty minutes.

Oct. 14, Box 75, 3.30 A.M. Needham.

Fire out of city limits. Alarm unnecessary. Apparatus called out: No. 3 Engine, No. 7 Hose, No. 1 Truck. Chief and Assistant Chief of Department. Service, one hour.

Oct. 22, 11.30 A.M. Elmwood Street.

Burning chimney. Extinguished by permanent employees and Foreman Graves. Service, one hour.

Nov. 1, Box 32, 9.27 P.M. River Street.

One-story frame 8 x 10 shed. Owned by the Second Congregational Church. Loss, \$10. Cause, incendiary. Apparatus present: No. 2 Engine, Nos. 4 and 5 Hose, No. 1 Truck. Chief of Department. Service, thirty minutes.

Nov. 6, 7.17 P.M. Walnut Street.

Woods. Cause unknown. Apparatus present: No. 3 Hose. Capt. Richardson. Service, one hour.

Nov. 15, Box 15, 5.40 P.M. Centre Street and Railway.

Three-story brick 50 x 100 stores. Owned by A. Howes; occupant damaged, Boynton & Marsh. Loss, \$33.10. Cause, open gas-jet. Apparatus present: No. 1 Engine, No. 4 Hose, No. 1 Truck. Chief of Department. Service, fifteen minutes.

Nov. 20, Box 37, 5.45 P.M. Highland Street.

Woods. Cause, careless burning of brush. Apparatus present: No. 2 Engine, Nos. 4 and 5 Hose, No. 1 Truck. Chief of Department. Service, one hour.

Dec. 5, Box 16, 9.16 P.M. Centre and Bennington Streets.

Three-story frame 30×50 dwelling. Owned by C. B. Prescott, occupied by Mrs. Hayes. Loss, \$50. Cause, overheated hot-air pipe. Apparatus present: No. 1 Engine, No. 4 Hose, No. 1 Truck. Chief of Department. Service, forty-five minutes.

Dec. 6, Box 23, 7.39 P.M. Central Avenue.

Two and a half story frame 25×50 dwelling. Owned by Mrs. Hayes, unoccupied. Cause, reflection from open fire. No damage. Apparatus present: Nos. 1 and 2 Engines, No. 4 Hose, No. 1 Truck. Chief of Department. Service, thirty minutes.

Dec. 14, Box 36, 5.30 P.M. Washington Street and Woodland Avenue.

Three-story frame 50×50 hotel. Owned by Joseph Lee. Loss, \$25. Cause, rats and matches.

Dec. 19, Box 24, 11.20 A.M. Chapel Street.

Two-story brick 30×40 office. Owned by Nonantum Worsted Co. Cause, gas-explosion. Apparatus present: Nos. 1 and 2 Engines, No. 4 Hose, No. 1 Truck. Chief of Department.

Dec. 22, Special "22." Boston (Brighton District).

Cause, call for assistance. Apparatus detailed: No. 1 Engine. Chief of Department. Service, four hours.

Dec. 23, Box 15, 8.50 P.M. Eldredge and Vernon Streets.

Unnecessary call for smoke from chimney. Apparatus present: No. 1 Engine, No. 4 Hose, No. 1 Truck. Chief of Department. Service, fifteen minutes.

LIST OF HYDRANTS AND LOCATIONS.

LOCATED IN WARD ONE.

Bellevue, 500 ft. east of Howard St.	Green and Pearl Streets.
Bellevue St. and Newtonville Ave.	Green and Chapel Streets.
Bellevue and Centre Streets.	Hovey and Washington Streets.
Bellevue, 495 ft. west of Centre St.	Jewett and Waban Streets.
Bellevue and Maple Streets.	Jewett and Washington Streets.
Bennington and Centre Streets.	Newtonville Avenue, 100 feet west of Mt. Ida Street.
Bennington, 600 ft. west of Centre Street.	Newtonville Ave. and Oakland St.
Boyd Street and Emerson Place.	Newtonville Avenue, 130 feet east of Howard Street.
Boyd and Jewett Streets.	Newtonville Avenue, between Oakland and Howard Streets.
Boyd, 400 feet east of Fayette St.	Peabody and Washington Streets.
California, 1,200 ft. east of Chapel Street.	Pearl, bet. Gardner and Jewett Sts.
California, 600 feet E. of Chapel St.	Pearl and Gardner Streets.
Centre and Converse Streets.	Pearl and Bacon Streets.
Centre and Mt. Ida Streets.	Pearl and Jewett Streets.
Chaffin, 400 ft. west of Centre St.	Pearl, 400 feet S. of Watertown St.
Channing and Washington Streets.	Pearl and Waban Streets.
Chapel and California Streets.	Richardson and Church Streets
Chapel Street, 200 feet north of Dugdale Mills.	Richardson, 450 feet west of Centre Street.
Chapel Street and Dugdale Mills.	School and Washington Streets.
Chapel and Watertown Streets.	Waban Park.
Chapel, 500 ft. S. of Watertown St.	Walnut Park.
Church St., opp. Whipple's Mills.	Washington Street, 400 feet west of Walnut Park.
Church, 500 ft. west of Centre St.	Washington and Bacon Streets.
Converse, 1,000 ft. W. of Centre St.	Watertown and Pearl Streets.
Cook, 500 ft. S. of Watertown Street.	Wesley, 300 feet west of Centre St.
Dalby and Watertown Streets.	West and Middle Streets.
Fairmount Ave., west of Centre St.	West, 500 feet S. of Watertown St
Fayette and Gardner Streets.	
Fayette and Boyd Streets.	

LOCATED IN WARD TWO.

Adams, 120 ft. north of Washington Street.	Adams and Watertown Streets.
Adams, 400 ft. north of Clinton St.	Beach and Washington Streets.
	Bowers, 675 ft. east of Walnut St.

Bridge and Chandler Streets.
 Bridge, 495 ft. north of Chandler St.
 Bridge and California Streets.
 Brooks Ave. and Washington St.
 Brooks Place, 600 feet north of
 Washington Street.
 Brookside Avenue, 500 feet north of
 Washington Street.
 Cabot, 754 feet east of Walnut St.
 California, 700 ft. E. of Crafts St.
 Central Ave. and Washington St.
 Central Avenue and Turner Street.
 Central Avenue and Prescott Street.
 Clinton, 500 ft. west of Adams St.
 Court and Beach Streets.
 Crafts and Linwood Streets.
 Crafts and California Streets.
 Cross and Washington Streets.
 Forest Ave., 500 ft. south of Otis St.
 Green and Chapel Streets.
 Harvard St. and Washington Park.
 Highland Ave. and Walnut Street.
 Highland Avenue, 470 feet west of
 Walnut Street.
 Highland Avenue and Allston St.
 Lowell and Walnut Streets.
 Lowell and Edinboro' Streets.
 Lowell and Washington Streets.
 Mt. Vernon and Allston Streets.
 Nevada and Watertown Streets.
 Nevada St, opp. Silver Lake Mills.
 Nevada, 600 ft. north of Watertown
 Street.
 Newtonville Ave. and Harvard St.

Newtonville Avenue, 530 feet east of
 Walnut Street.
 Newtonville Ave. and Walnut St.
 Nonantum Worsted Co., Chapel
 Street (private).
 Otis, 500 ft. west of Murray Street.
 Otis and Walnut Streets.
 Otis, bet. Walnut and Murray Sts.
 Otis Street and Forest Avenue.
 Otis and Murray Streets.
 Parsons and Washington Streets.
 Silver Lake Manufacturing Co.,
 Nevada Street (private).
 Walker and Washington Streets.
 Walker, 475 feet north of Washing-
 ton Street.
 Walnut St., opposite High School.
 Walnut, 300 feet north of Hull St.
 Walnut and Washington Streets.
 Walnut, 540 feet north of Washing-
 ton Street.
 Walnut, 330 ft. south of Crafts St.
 Walnut and Mill Streets.
 Washington, 500 ft. west of Walnut
 Street.
 Washington and Harvard Streets.
 Washington and Crafts Streets.
 Washington Park, 300 feet west of
 Walnut Street.
 Washington Place, 400 feet west of
 Walnut Street.
 Watertown, 310 feet west of Wal-
 nut Street.
 Watertown and Crafts Streets.

LOCATED IN WARD THREE

Alpine Street, 800 feet east of Hill-
 side Avenue.
 Auburn and Washington Streets.
 Auburn and Crescent Streets.
 Cherry and Washington Streets.
 Chestnut, 300 ft. north of Otis St.
 Chestnut and Washington Streets.
 Crescent Avenue, 400 feet north of
 Auburn Street.
 Davis, 100 ft. west of Chestnut St.

Derby and Cherry Streets.
 Derby, 475 feet west of Cherry St.
 Eden, 300 ft. N. of Watertown St.
 Elm and Washington Streets.
 Fountain and Highland Streets.
 Henshaw, 500 ft. north of River St.
 Highland, 300 feet east of Fountain
 Street.
 Highland and Chestnut Streets.
 Highland, opposite Hunter Street.

Highland and Washington Streets.	Temple and Putnam Streets.
Hillside Avenue and Chestnut St.	Temple and Prospect Streets.
Junction Washington, Watertown, and Chestnut Streets (four way).	Temple, 600 ft. W. of Putnam St.
Lander and Shaw Streets.	Waltham and Washington Streets.
Margin, opposite Putnam Street.	Waltham St., opposite Eden Ave.
Mt. Vernon, 500 ft. east of Hillside Avenue.	Waltham Street, 500 feet north of Eden Avenue.
Mt. Vernon Street and Hillside Ave.	Waltham and Derby Streets.
Mt. Vernon St. and Greenwood Ave.	Waltham and Pleasant Streets.
Oak Avenue, 500 ft. north of Web- ster Street.	Waltham and Crafts Streets.
Otis Street and Hillside Avenue.	Washington St. and Greenwood Ave.
Otis St., 500 ft. E. of Hillside Ave.	Washington Street, 100 feet east of Davis Court.
Otis and Chestnut Streets.	Washington Street and Lucas Ave.
Perkins and Lander Streets.	Watertown, opposite Cross Street.
Prospect, 600 ft. north of Washing- ton Street.	Watertown Street, 260 feet east of Davis Court.
Prospect and Washington Streets.	Webster and Waltham Streets.
River and Henshaw Streets.	Webster and Cherry Streets.
River and Elm Streets.	Webster Street and Oak Avenue.
River St., opposite Franklin School.	Webster Street and Webster Place.
River and Pine Streets.	Webster Place and Webster Park.
Temple and Highland Streets.	Winthrop and Putnam Streets.
	Winthrop and Shaw Streets.

LOCATED IN WARD FOUR.

Aimshouse (private).	Grove, 700 feet west of Hancock St.
Ash and Melrose Streets.	Hancock and Central Streets.
Ash and Seaverns Streets.	Hancock St. and Woodland Ave.
Ash, 600 ft. north of Bourne Street.	Hancock and Fern Streets.
Auburn and Greenough Streets.	Hancock and Grove Streets.
Auburn, 240 ft. west of Maple St.	Hawthorn Avenue, 600 feet south of Woodland Avenue.
Auburn St. and Washington Ave.	Islington Avenue.
Auburndale Avenue, 540 feet west of Rowe Street.	Lexington and Auburn Streets.
Auburndale Avenue, 420 feet west of River Street.	Lexington Street, opposite Auburn- dale Avenue.
Auburndale Avenue, 900 feet east of Rowe Street.	Lexington Street, 900 feet north of Auburndale Avenue.
Central and Maple Streets.	Melrose and Seaverns Streets.
Central, 340 feet west of Fern St.	Melrose, 900 ft. N. of Seaverns St.
Central Street and Woodland Ave.	Oakland Avenue, 900 feet south of Auburn Street.
Central Street, 500 ft. east of Wood- land Avenue.	Rowe and Auburn Streets.
Grove and Central Streets.	Rowe Street and railroad-crossing.
Grove, 500 feet south of Central St.	Seaverns and Lexington Streets.

Seminary, 700 feet west of Woodland Avenue.	Washington and Aspen Avenues.
Vista, 700 ft. W of Woodland Ave.	Washington Ave. and Bourne St.
Walcott and Rowe Streets.	Woodland and Washington Aves.
Walcott, 600 ft. E. of Lexington St.	Woodland Avenue and Maple St.
Washington Street, opposite Woodland Park Hotel.	Woodland, opp. Seminary Avenue.
	Woodland Avenue and Grove Street.

RIVERSIDE.

Charles Street and Evergreen Ave.	Evergreen Avenue, 500 feet south of
Charles, 600 ft. west of Auburn St.	Auburn Street.
Charles and Auburn Streets.	Newland, 300 feet S. of Charles St.

LOWER FALLS.

Beacon, 1,000 feet south of Washington Street.	Pine Grove Ave., 700 feet north of Grove Street.
Beacon Street, opposite Almshouse.	Wales Street and Needham line.
Beacon St., 800 ft. E. of Almshouse.	Washington, 1,500 feet east of Beacon Street.
Concord Street and Weston line.	Washington, 700 ft. east of Beacon Street.
Concord and Washington Streets.	Washington and Beacon Streets.
Grove and Washington Streets.	Washington, 300 ft. E. of Wales St.
Grove, 400 ft. north of Washington Street.	Washington and Wales Streets.
Grove, 700 ft. north of Washington Street.	Washington St., opp. No. 6 Hose.
Grove and St. Mary's Streets.	Washington and Hamilton Streets.
Pine Grove Ave. and Grove Street.	

LOCATED IN WARD FIVE.

Boylston, 700 feet west of High St.	Elliott and Cheney Streets.
Boylston and Chestnut Streets.	High and Boylston Streets.
Boylston and Ellis Streets.	High and Winter Streets.
Chandler Street.	Mechanic and Cheney Streets.
Chestnut and Summer Streets.	Needham and Oak Streets.
Chestnut, 600 ft. south of Elliott St.	Oak and Chestnut Streets.
Chestnut St. and cotton-mill gate.	Oak, 400 ft. north of Needham St.
Elliott, 500 feet east of Cottage St.	Oak, 400 feet south of Elliott St.
Elliott and Cottage Streets.	Otis Pettee & Co. shops (private).
Elliott and Oak Streets.	Pettee Street, opposite No. 7 Hose.
Elliott and Chestnut Streets.	Pumping-station.
Elliott Street and Needham line.	Woodward and Chestnut Streets.

HIGHLANDS.

Boylston and Centre Streets.	Hartford Street and Erie Avenue.
Boylston and Hartford Streets.	Hyde and Centre Streets.
Columbus and Lincoln Streets.	Lake Avenue and Walnut Street.
Cook, opposite Winchester Street.	Lincoln and Woodward Streets.
Erie Avenue and Bowdoin Street.	Walnut and Centre Streets.
Floral Avenue and Walnut Street.	Walnut, 400 feet north of Forest St.
Forest and Bowdoin Streets.	Winchester and Hyde Streets.
Forest and Columbus Streets.	Woodward and Boylston Streets.

LOCATED IN WARD SIX.

Beacon, 500 feet east of Walnut St.	Grafton and Centre Streets.
Beacon St., 500 ft. W. of Lake Ave.	Grafton and Homer Streets.
Beacon Street and Crescent Avenue.	Homer, 600 feet east of Walnut St.
Beacon and Centre Streets.	Homer and Pleasant Streets.
Beacon and Walnut Streets.	Homer and Cedar Streets.
Beacon St., 490 feet west of Grant Avenue.	Institution Avenue, 500 feet south of Chase Street.
Beacon St., 2,000 feet east of Grant Avenue.	Knowles and Station Streets.
Cedar, 300 feet north of Homer St.	Lake Ave., 500 ft. east of Hyde St.
Cedar, 100 feet south of Mill Street.	Lake Avenue and Laurel Street.
Cedar, 300 feet south of Mill Street.	Lyman, 400 feet east of Centre St.
Centre and Homer Streets.	Maple Avenue and Homer Street.
Centre and Ward Streets.	Parker and Cypress Streets.
Centre and Mill Streets.	Pleasant Street, 500 feet east of Crescent Avenue.
Centre, 300 feet north of Cotton St.	Pleasant St., 500 ft. N. of Lake Ave.
Centre, 600 feet south of Sargent St.	Rogers and Centre Streets
Centre and Sargent Streets.	Station, 200 feet east of Centre St.
Chase Street and Institution Ave	Station and Beacon Streets.
Chase and Station Streets.	Station Street and railway-crossing.
Clark and Centre Streets.	Sumner, 500 feet west of Gibbs St.
Clark, 1,400 feet south of Centre St.	Sumner and Gibbs Streets.
Clark and Parker Streets.	Walnut Street and cemetery gate.
Clinton Place, 300 feet west of Centre Street.	Ward, 570 feet east of Sumner St.
Crescent Avenue and Centre Street.	Ward Street and Grant Avenue.
Crescent Street and Norwood Ave.	Ward St , 480 ft. E. of Waverly Ave.
Crystal Street and Lake Avenue.	Ward Street, reservoir-yard.
Cypress and Paul Streets.	Ward, 550 feet west of South Street.
Elgin St., 400 feet east of Glen Ave.	Warren St., 500 ft. S of Glen Ave.
Everett, 500 ft. east of Sumner St.	Warren Street and Glen Avenue.
	Willow and Centre Streets.

CHESTNUT HILL.

Beacon, 500 ft. W. of Hammond St.	Hammond, 200 feet south of railroad-bridge.
Hammond, 900 feet S. of Ward St.	Hammond, 690 feet north of railroad-station.
Hammond and Beacon Streets.	Hammond St. and railroad-bridge.
Hammond, 600 ft. S. of Beacon St.	Saltonstall Avenue (3).
Hammond, 1,000 feet south of Beacon Street.	South, 800 feet N. of Hammond St.
Hammond, 400 feet S. of Ward St.	

LOCATED IN WARD SEVEN.

Arlington, 450 ft. S. of Belmont St.	Nonantum and St. James Streets.
Arlington Street and Waverly Ave.	Nonantum, 110 feet north of Orchard Street.
Arlington and Pembroke Streets.	Nonantum Square (four way).
Carleton and Centre Streets.	Park and Vernon Streets.
Church and Centre Streets.	Park, 500 feet south of Vernon St.
Church and Eldredge Streets.	Park and Sargent Streets.
Church and Park Streets.	Pearl and Bacon Streets.
Durant Street and Waverly Avenue.	Pearl and Linden Streets.
Elmwood and Centre Streets.	Pembroke, 100 ft. S. of Durant St.
Elmwood and Baldwin Streets.	St James St. and railroad-bridge.
Elmwood and Brooks Streets.	Sargent Street and Hyde Avenue.
Franklin and Centre Streets.	Tremont and Pembroke Streets.
Franklin Street and Kenrick Park.	Tremont Street and Waverly Ave.
Franklin, between Centre Street and Kenrick Park.	Vernon and Centre Streets.
Franklin Street and Waverly Ave.	Vernon and Baldwin Streets.
Hunnewell Avenue and Hunnewell Park (private).	Washington and Nonantum Streets.
Hunnewell Park (private).	Washington and Park Streets.
Hunnewell Ave. and Washington St.	Washington, 190 feet east of St. James Street.
Jefferson and William Streets.	Washington Street and city of Boston line
Jefferson and Centre Streets.	Washington Street, 400 feet east of Waverly Avenue.
Kenilworth and Ivanhoe Streets.	Waverly Avenue and Kenrick St.
Kenrick Street and Magnolia Ave.	Waverly Avenue, 900 feet south of Kenrick Street.
Linden and Washington Streets.	Waverly Avenue and Cotton Street.
Montrose and Ivanhoe Streets.	
Monument Avenue, 400 feet east of Waverly Avenue.	

RULES AND REGULATIONS

FOR THE GOVERNMENT OF THE

NEWTON FIRE DEPARTMENT.

CHIEF OF DEPARTMENT.

THE Chief of Department shall have the sole and absolute command at fires and alarms of fires over all members of the department and of all other persons present at fires, and of all apparatus and appurtenances belonging to the department, and direct all measures he may deem proper for the extinguishment of fires. He shall devote his whole time to the performance of the duties of his office. He shall visit the engine, hose, and truck stations daily, if possible (Sundays excepted), and report to the Fire Committee or Board of Aldermen such suggestions or recommendations as he may deem necessary. He may, from time to time, issue such orders for the government of the members as he may deem necessary, subject to the approval of the Mayor and Aldermen.

He shall have power to suspend any officer or member of the department for insubordination, disorderly conduct, or neglect of duty, said suspension to continue, pending the action of the Mayor and Aldermen.

ASSISTANT CHIEF.

In the absence of the Chief of Department the Assistant Chief shall have the same authority, and exercise the same powers, as the Chief of Department. On arrival at fires he shall report to the officer in command, and when on duty wear his fire-hat. He shall report to the nearest engine-

station for all alarms from boxes which he does not respond to on first call, remaining thirty minutes, unless sooner dismissed.

FIRE-ALARM OPERATOR.

The Fire-Alarm Operator shall have, under the direction of the Chief of Department, general supervision and management of all the telegraph apparatus belonging to the department, and every thing pertaining to the same. He shall keep the same at all times in perfect working-order, and repair all breaks in the most expeditious manner, reporting to the Chief of Department for all necessary supplies, and such improvements as he may think advisable. When additional help is necessary, he will make application to the Chief of Department, and, when in the immediate vicinity of the department houses, he may obtain the assistance of the regular members, by direction of the Chief of Department. He shall give necessary instructions to persons in the department and to key-holders. He shall devote his whole time to the duties of the position.

ENGINEERS.

The engineers shall have full control of the engine, bunk, and meeting-rooms and basements, and shall report to the Chief of Department at once the name of any member of the department, or other person, guilty of any disorderly conduct, or violation of the Rules and Regulations; also any damage which their apparatus, or any part of it, their houses, or furniture, may have sustained. They shall keep an account of all supplies that come to the station, and promptly report when materials are required for use; keep their engines at all times in condition for immediate service. Delays or accidents resulting from neglect will be sufficient cause for suspension or discharge. They shall instruct their stokers in the management of the engines. The use of all patent preparations for cleaning the metals is strictly prohibited. All material for polishing will be furnished from headquarters. Keep the safety-valve set at eighty pounds, and run the engines according to the line of hose: a hundred pounds will be carried only when working through an extra

long line, or two lines of, say five hundred feet each. Water-pressure will never exceed a hundred pounds, except on special order from the Chief or Assistant Chief of Department.

The following whistle-signals will be made use of in this department until further orders :—

One whistle, signals pipemen to look out for water.

Two whistles, signal for burst hose.

Three whistles, signal for coal.

Two short and one long whistle, signal, "Make up."

Engineers will be on duty at all times. No member shall shut off the water, or in any manner move the machinery attached to the engine, except at request of the engineer.

When the services of the engine are not required, draw the fire, always leaving sufficient quantity for rekindling in case of another alarm while returning. All fuel partially consumed shall be preserved, and not be left burning in the streets.

DRIVERS.

Drivers permanently employed shall be on duty at all times. They shall be held personally responsible for their stables and for the care and management of their horses. They must not drive them faster than is consistent with the safety of the public and of the apparatus of the department. They will be held responsible for any damage caused by them, or carelessness displayed in conveying their apparatus to or from fires. Racing to or from fires will not be allowed under any circumstances. If the apparatus of two or more companies shall proceed to or from a fire on the same street, they shall do so in single file. Returning from fires, they shall drive at a moderate rate of speed. On arriving at fires, the horses shall be blanketed, and kept moving, if possible, and upon returning to the house, if wet by perspiration, they must be immediately rubbed dry. These instructions will also apply to drivers of hose-carriages and tenders.

EXERCISE HOURS.

The horses used exclusively by this department will be exercised two hours on each of the following stated days,—

Monday, Wednesday, and Friday, weather permitting, and when the horses have performed no duty within the twenty-four hours next preceding. The horses will not be exercised on public holidays, but on the preceding, or the day after. The horses will always be exercised within one half-mile of their respective stations, unless otherwise ordered by the Chief of Department, and never speed them faster than a slow trot.

**"RIGHT OF WAY WHEN PROCEEDING TO FIRES," AS
ACCORDED BY LAW.**

[Chap. 37, Acts 1874.]

An Act to punish the Wilful Obstruction of Fire-Engines, etc.

Whoever wilfully and maliciously obstructs, or retards, the passage of any engine, or other apparatus of any fire-department, while going to a fire, through any street, lane, alley, or other way, shall be punished by imprisonment in the House of Correction not exceeding three months, or by a fine not exceeding fifty dollars. [Approved Feb. 28, 1874.]

All drivers of this department will govern themselves by the above law, and use the utmost discretion at all times to avoid accidents. Hose-carriages, in response to alarms of fire, will follow the engines to which they belong. Call-drivers of hose-carriages will be required to sleep in their respective stations.

While the horses are being groomed, but one harness will be removed at a time.

STOKERS.

The stokers shall respond promptly to all alarms, and, when in quarters, they will assist in hitching up. When on duty at fires, they shall be under the direction of their respective engineers, who shall require their whole and undivided attention. On return from fires, they shall remain on duty until relieved by their engineers. They will be required to sleep in their respective stations.

FOREMEN.

It shall be the duty of the foremen of all companies where permanent men are not employed to see that the apparatus committed to their care, and the several stations in which

the same are deposited, and all things in or belonging to the same, are kept neat and clean, and in order for immediate use; to see that the snow is cleared from the sidewalks and driveways connected with the stations under their charge.

FINES.

Foremen of companies will see that the following fines for non-attendance are rigidly enforced:—

For absence from fires, and alarms	\$1 00
For absence from regular and special meetings	50

ASSISTANT FOREMEN.

The assistant foreman shall, in the absence of the foreman, perform all the duties, and exercise the same authority as the foreman.

MEMBERS.

The members of the several companies shall, upon an alarm of fire from the section of the city to which they are assigned for duty, proceed promptly to the place of the fire in an orderly manner, report to the foreman, and perform any duty that may be required of them. They shall remain on duty until relieved by orders, which shall be given only by the officer in command. If the company to which they are attached does not respond to the alarm on first call, they shall proceed to their engine, hose, or truck stations, and remain thirty minutes, unless called into service, or relieved by dismissal. No member shall be absent from duty for a longer period than one month, except in case of sickness, or by special permission of the Chief of Department. No person whose occupation requires his daily absence from the city will be eligible to membership in this department. Any officer or member of this department who shall remove from the city shall thereupon cease to be a member; and all members of the department will be required to live within a reasonable distance of their respective stations.

SUBSTITUTES.

Each company may have two substitutes to take the places of call-members absent from the city, or disabled by sickness.

They shall be approved by the Chief of Department, and shall, if for services rendered for a period of fifteen days or more, receive the same compensation as their principals, to be deducted from their principals' pay. Any substitute serving for a less time than fifteen days shall be paid the amount of fines imposed on his principal for non-attendance at fires or alarms. Any member failing to pay his substitute on the following pay-day shall be subject to dismissal. No substitute can be assigned to duty in place of his principal during the time of a fire or an alarm of fire.

BUNKERS.

Call-men to whom beds are assigned will be required to retire at or before 11 P.M., unless excused by the engineer, or person in charge of the station, and will not be allowed to use or occupy the same during the day, unless deprived of their usual rest by the performance of active fire duty, or in case of sickness sufficient to require the use of the same. No visitors will be allowed in the bunk-rooms after hours, or at any other time while the beds are occupied. It shall be the duty of the engineer to immediately report to the Chief of Department any misconduct or violation of the rules on the part of persons occupying said beds. The occupant of each bed will be held responsible for the cleanliness of the same, and for any damage to either bed or bedding through carelessness. All members occupying sleeping-quarters in the engine, hose, and truck stations, shall vacate their beds, from May 1 to Oct. 1, at 6.30 A.M., and from Oct. 1 to May 1, at 7 A.M.

HORSES AND FEEDING.

The system of feeding shall be as follows, particular care being exercised not to feed or water the horses while too warm: —

Four quarts of oats morning and night: this, with about eight or ten pounds of hay after bedding the horses, will constitute the daily allowance for each horse, and must not be exceeded. But, when it shall be ascertained that a less allowance is sufficient, the drivers will exercise discretion as

to the quantity. The stalls to be cleaned early in the morning, after breakfast the horses groomed, and the harnesses cleaned. Horses sick or disabled will be immediately reported to the Chief of Department. No alterations or changes in harness will be permitted, except upon authority of the Chief of Department. When horses are in the shop for shoeing, the drivers shall remain with them, and shall report to the Chief of Department any unnecessary delay, or any work improperly executed, and will allow but one shoe to be removed at a time.

BADGES.

All members of the Department shall be provided with a badge, to be known as the Regulation Badge of the Department, which shall be worn in a conspicuous place during the time they are on duty; and no member shall lend his badge on any pretext whatever. Any member losing his badge shall immediately notify the Chief of Department, and use all diligence to recover the same. He shall be required to pay for the same before another badge will be provided, the money so paid to be refunded, should the badge be found. These badges shall at all times remain the property of the city. Any member loaning his badge to any person not connected with the Department shall be subject to dismissal. No person will be recognized as a member of this department, unless wearing his badge.

ROLL-CALL.

Upon returning from a fire, or an alarm of fire, the Assistant Foreman, or, in his absence, the Foreman, shall call the roll, and report to the Chief of Department any member absent and the excuse for the same; and in no case shall the permanent members act as substitutes for the call-members, or answer for them at roll-call.

LEAVE OF ABSENCE.

No permanent member shall leave the city, or be granted leave of absence, without notifying the Chief of Department, and procure a substitute to his acceptance; and the substitute

shall be on duty before the applicant leaves his post, and the pay of the substitute may be deducted from the pay of the principal. Any member of the call-force expecting to be absent from the city shall notify the Foreman of his company, and procure a substitute to his satisfaction. Whenever leave of absence is granted to bunkers, they shall report the same to the person in charge of their station, and shall in like manner report their return.

SUPPLIES.

No member of the department will be allowed to make any purchases for the department, chargeable to the city, except by order of the Chairman of Fire Committee or Chief of Department.

MEALS.

For permanent members three hours daily will be allowed for meals, and will be so arranged that there shall be at all times one member on duty.

DUTIES AT FIRES.

At all fires the first officer arriving shall, in the absence of the Chief or Assistant Chief, and until his arrival, act as Chief of Department, and be obeyed and respected accordingly. The men are required to move quickly, and obey orders promptly and without criticism. The officers in charge of the several companies shall, immediately on their arrival at a fire, report to the officer in command, and remain for orders. No company shall leave the fire-grounds, or take the apparatus of which they have charge therefrom, without the order or permission of the officer in command. Any neglect of duty, disobedience of orders, or disrespect to officers, shall be reported to the Chief of Department. No member shall wilfully or maliciously direct a stream of water upon any fireman or citizen. All disputes which may arise between companies or individual firemen when on duty shall be settled by the engineer in command. Members of companies that are not in service at fires will not enter the buildings unless ordered, but remain convenient to the fire, equipped, and ready for orders.

GOING TO OR FROM FIRES.

Order and decorum will be preserved when going to or from a fire or an alarm. To guard against collision and accident when proceeding to fires, the gongs will be struck when approaching street-crossings, turning corners, and approaching the fire-grounds.

RIDING TO FIRES.

All drivers will be held responsible for any unnecessary overloading, and will in all cases judge of the ability of the horses, the condition of the streets, and the distance to travel. The men will mount and dismount as ordered by them. Officers will avail themselves of any opportunity to ride to fires (excepting on engines), to the exclusion, if necessary, of the men.

FIRE-GROUNDS.

All engine and hose companies responding to second or general alarms will connect, but will not lay their lines until they have reported to the officer in command at the fire for orders.

STATIONS.

Stations of the department shall be open from ten A.M. until ten P.M. for visitors, and at any other time for inspection by members of the City Government. On the sabbath all stations must be closed, and it is made the duty of the engineer or person in charge to see that order and quiet are preserved. All work other than that absolutely necessary will be omitted for the day. The permanent members of each station shall once in each week scrub the floors of their respective stations, and at all times keep them neat and clean. The members in charge of the several stations shall personally attend to the receiving of visitors, whether members of the City Government, officers of the department, or citizens. Citizens visiting the stations shall be courteously treated, have reasonable questions answered, and any proper information given. All members detailed to sleep in the stations must be in their quarters at the time stated for closing the station, unless otherwise excused, and all other persons must leave at that time.

DRILL.

Until further notice the truck company will drill once each month, from May 1 to Oct. 1, and all other companies at such times as may be ordered by the Chief of Department.

CONDUCT.

All members of the department are strictly required in their intercourse with each other, social or official, to observe a courteous demeanor, and officers or men in addressing each other will do so in a respectful manner. While on duty at fires, the greatest degree of silence compatible with a proper discharge of duty will be required. No profane or ungentlemanly language, or disorderly conduct, will be allowed on the part of any officer or member of the department when on duty.

No spirituous or malt liquors will be allowed in any station of the department, or at any fire. If any member shall enter any station of the department intoxicated, or become intoxicated at a fire, he shall be subject to dismissal.

No gambling of any kind will be allowed in any station of the department.

GENERAL RULES.**RULE 1.**

No driver of engine, hose, hook-and-ladder truck, or other vehicle, shall drive over any line of hose if it can be avoided.

RULE 2.

No company will be allowed to take its apparatus from their quarters, except in case of fire, without consent of the Chief of Department.

RULE 3.

The hose must be changed on reels once in four weeks, unless otherwise ordered by the Chief of Department, for which purpose the foreman will warn the members of his company detailed for this purpose; and any member absent, unless excused, will be fined the same amount as for absence from fires.

RULE 4.

Any member permanently employed who refuses or neglects to pay any just debt contracted during his connection with the department, it shall be deemed sufficient cause for suspension or discharge.

RULE 5.

No permanent officer or member of the department shall attend a caucus or political convention as a delegate, distribute tickets at any election, or take any part whatever in political matters other than to exercise a right of suffrage.

RULE 6.

All members of the department will be required to address officers by their respective titles when on duty.

RULE 7.

When any member shall leave the department, he shall thereupon return his badge, key, and copy of Rules and Regulations, in good condition, to the foreman of his company, who shall immediately notify the Chief of Department; and any member failing so to do shall have the amount deducted from his pay.

RULE 8.

No balls, parties, or social gatherings of any description shall be held in any building in charge of the department, except on permission from the Chief of Department.

RULE 9.

No property belonging to the city will be loaned, for any purpose whatever, except upon written order of the Chief of Department.

RULE 10.

No hoseman or truckman at call shall be entitled to pay for less than fifteen days' service. All appointments shall, as far as practicable, be made to date from the first or fifteenth day of each month.

RULE 11.

In the use of hydrants, all members of the department are instructed to use great care in the opening and closing of the same, and to see that each cap is properly adjusted before leaving. The first company connecting to a hydrant in case of fire will leave one member in charge of the same: should a second company or line desire connection, it will not be made until the line is complete to the fire, and orders given for water. Exceptions to this are ordered for engines, which will be given immediate connection (if ordered into service), and the hydrant left in charge of the engineer.

RULE 12.

Officers of companies, hosemen, and laddermen will wear their fire-hats when on duty.

Approved by the Board of Mayor and Aldermen, April 19, 1880.

Attest: EDWIN O. CHILDS, *Clerk.*

H. L. BIXBY, *Chief Fire Department.*

ORDINANCES RELATING TO FIRE DEPARTMENT.

ORDINANCE XIII.

Fire Department.

SECTION 1. A fire department is hereby established. Department established. Charter, § 7.

There shall be a Chief of Fire Department, an Assistant Chief, an operator of the fire-alarm telegraph, three steam fire-engine companies, four hose companies, and one truck company.

Each steam fire-engine company shall consist of thirteen men; to wit, a foreman, an assistant foreman (who shall also be clerk), an engineman, a driver, a fireman, and eight hosemen. Number of men and officers.

Each hose company shall consist of six men; to wit, a foreman, an assistant foreman (who shall also be clerk), and four hosemen.

Each truck company shall consist of thirteen men; to wit, a foreman, an assistant foreman (who shall also be clerk), a driver, and ten truckmen.

SECT. 2. The Chief of Department shall be responsible for the discipline, good order, and proper conduct of the officers and men constituting the department, and for the good condition of all houses, reservoirs, hydrants, wells, engines, hose, hose-carriages, hooks and ladders, trucks, and all apparatus and furniture thereto belonging, and connected with the department. He may suspend any officer or member, and shall forthwith refer his case to the Board of Aldermen for its action. He shall have the superintendence, Chief. Duties. May suspend.

Superintend-
ence and con-
trol of houses
and apparatus.

and, under the direction of the joint standing committee on the fire department, the control, of the engine and other houses used by the department, of the furniture therein, and of the engines and apparatus, as well as of all other property appertaining to the department.

Sole command
of members.

SECT. 3. The Chief of Department, or, in his absence, the Assistant Chief, shall have sole and absolute control and command of all the other members of the department and of other persons present at fires.¹ The officer in command of the company which first arrives at a fire shall be the officer in command until the Chief of Department or the Assistant Chief arrives.

Rolls.

SECT. 4. The Chief of Department shall keep rolls of the companies, specifying the name, age, occupation, and residence, and the date of the admission and discharge, of each member of the department; and he shall keep an accurate account of all property belonging to it.

Reports of
fires, etc.

He shall, at the close of each three months, and oftener if required, make to the City Council a detailed report of the condition of the fire department, of losses and accidents by fire, with the causes thereof as well as they can be ascertained, and of the description of the buildings and other

Fire-wards,
etc., may or-
der buildings
to be pulled
down.

¹ PUBLIC STATUTES. — SECT. 3. The fire-wards, or any three of them, present at a place in immediate danger from a fire, or, where no fire-wards are appointed, the selectmen, or mayor and aldermen present, or, in their absence, two or more of the civil officers present, or, in their absence, two or more of the chief military officers of the place present, may direct any house or building to be pulled down or demolished, when they judge the same to be necessary in order to prevent the spreading of the fire.

Engineer to
have power of
fire-wards
under Sect. 3.

SECT. 4. In cities and towns, which by vote of the City Council, or of the legal voters respectively, have accepted the provisions of this section, or of chapter two hundred and one of the statutes of the year eighteen hundred and seventy-three, the engineer of a fire department in command at a fire shall, to the exclusion of all other persons, have the power conferred by the preceding section.

Acceptance.

[Stat. 1873, chap. 201. Accepted Feb. 12, 1877.]

property destroyed or injured, the amount of insurance, and the names of the owners.

SECT. 5. The foremen shall preserve order and discipline in their respective companies, and shall promptly report in writing the name of any member guilty of misconduct to the Chief of Department, who shall, if he thinks it proper, report thereon to the Mayor and Aldermen. Foremen.

The foremen shall cause to be kept by the respective clerks rolls of the companies, specifying the time of admission and discharge of each member, together with the age, residence, and occupation of each member, and a record of all the city's property intrusted to their care. Their rolls and record-books shall at all times be subject to the inspection of the Chief of Department; and they shall furnish him with copies or abstracts thereof at his request. Rolls.

SECT. 6. It shall be the duty of the men permanently employed in the department to keep the apparatus committed to their care, and the several buildings in which the same is deposited, and all things intrusted to their care, clean, and in order for immediate use, and to wash and dry the hose of the entire department when required so to do; and they shall clear the snow from the sidewalks and driveways connected with the houses under their charge. Care of apparatus, etc.

SECT. 7. No company shall leave the city in case of a fire in another city or town, except by order of the Chief or Assistant Chief of Department. Companies not to leave city, except.

SECT. 8. No member shall be transferred from one company to another, except by order of the Chief of Department. Members not to be transferred, except.

SECT. 9. Every member of the department shall wear at every fire such a badge as the Chief of Department shall prescribe; and no person without such badge shall, except by permission of Badge.

the officer in command, enter within lines formed at a fire by such officer.

Shavings and other combustible material, Pub. Stats., chap. 104, §§ 1-12.

SECT. 10. The Chief of Department shall examine all places where shavings or other combustible materials are deposited or collected; and shall see to the removal of the same, whenever, in his opinion, the same are dangerous; and shall direct the owners, tenants, or occupants of such places to remove the same, which they shall do forthwith; and, in case of refusal or neglect, he shall cause the same to be removed at the expense of such owners, tenants, or occupants.

Inspection of buildings by Chief.

Steam-engines.

Camphene, etc.

SECT. 11. The Chief of Department shall observe all buildings in which steam-engines are used, and all buildings in process of erection or alteration, and make a record of such of them as in his judgment may be dangerous, and report thereon to the Mayor and Aldermen forthwith. Whenever, in the opinion of the Chief of Department, any camphene or other explosive or inflammable fluid or material should be removed, he shall forthwith notify and direct the owner, tenant, or occupant of the premises upon which the same are situated, to remove the same, which he shall forthwith do. In case such tenant, owner, or occupant shall refuse or neglect so to do, the Chief of Department shall cause the same to be removed at the expense of such owner, tenant, or occupant. No person shall obstruct the Chief of Department in carrying out the provisions of this section.

Chief to prepare pay-roll.

SECT. 12. The Chief of Department shall, on the last day of each month, prepare a pay-roll of all persons regularly employed in the department, and present it to the committee on the fire department, for their action. On the last day of June and of December in each year, the clerk of each company shall make a roll, bearing the full name, age, occupation, and residence of every member of

the company, specifying also the number of times the company has been called out, and the attendance of each member, to which shall be appended the following certificate: —

“ We the undersigned do hereby certify, that, according to the best of our knowledge and belief, the foregoing persons are members of — company, and that said company has consisted of — members during the last six months; that during that time they have performed all the duties incumbent on them as firemen, have been present at every turn-out of the company, or been duly excused, and that they are entitled to all the privileges and pay of firemen.”

The certificate shall be signed by the foreman and clerk, and shall be delivered to the Chief of Department.

Certificate of
pay-roll.

The Chief of Department shall examine these rolls, and, if they are found correct, shall approve them, and present them, with the pay-rolls of the several companies, to the committee on the fire department, for their action.

SECT. 13. The Chief of Department shall have the care and management of the rooms, apparatus, and machinery connected with the fire-alarm telegraph, and shall determine to whom shall be intrusted the keys of the signal-boxes. He shall prepare rules and directions for giving alarms of fire through the telegraph.

Fire-alarm
telegraph.

Keys.

SECT. 14. No unauthorized person shall open any of the signal-boxes, except in case of fire, or interfere with the wires, or the poles, or other supports of the wires.

Signal-boxes.

SECT. 15. The Chief of Department shall see that every person raising a false alarm of fire is prosecuted.

False alarms.

SECT. 16. No gambling shall be allowed in any building occupied by the fire department, nor shall spirituous liquors be kept or used there.

Gambling.

SECT. 17. No person shall draw water from the reservoirs or fire-hydrants, except in case of

Water from
hydrants, etc.

fire, and except as otherwise provided; ¹ nor shall any engine, hose, or truck, be taken out of the city, without permission of the Chief or Assistant Chief. No part of the apparatus shall be taken from the city, unless to a fire, without special permission from the Mayor and Aldermen.

SECT. 18. No occupant of any building or room in which there is a hatchway or trap-door shall suffer the same to be left open at night.

Disabled
members.

SECT. 19. Any member of the department injured or disabled while on actual duty shall receive pay for the time lost in consequence, not exceeding three months.

Setting fires
wantonly to
trees, etc.

SECT. 20. No person shall wantonly or carelessly set fire to any tree, bush, grass, leaves, brushwood, rubbish, or other substance in any place in the city of Newton.

Penalty.

SECT. 21. Whoever shall violate any provision of this ordinance shall forfeit a sum not exceeding twenty dollars.

ORDINANCE XXIV.

Buildings.

Permit.

SECTION 1. No person shall erect, alter or rebuild, or essentially change, any building or any part thereof, for any purpose other than a dwelling-house, without first obtaining in writing a permit from the Board of Aldermen. The application for such permit shall specify the location and size of said building, the material of which it is to be constructed, and the use for which it is intended.

SECT. 2. No person shall use any building, or part thereof, for any purpose rendering said building, or buildings adjacent thereto, hazardous, unsafe, or liable to be destroyed by fire, or dangerous

¹ Ordinance XV. § 19.

to persons or property, without first obtaining a permit as named in section one.

SECT. 3. All chimneys hereafter erected shall be built of brick, stone, or other fire-proof, non-conducting material. All brick flues shall be smoothly plastered inside with mortar from top to bottom, and outside below the roofing. In no case shall chimneys rest upon any flooring without a footing of masonry or iron, supported by iron beams, having a secure bearing on iron at either end.

Chimneys and
brick flues.

Hearths of fireplaces or grates shall be laid upon brick or other trimmer arches, or upon bars of iron supporting a bed of brick-work.

Hearths and
grates.

No wood-work of any kind shall be placed at a less distance than one inch from the outside brick-work of any flue, and in no case shall a nail be driven into the masonry of any flue.

Wood-work.

No wood-work shall be placed at a less distance than one inch from any tin or other metal flue or flues, pipe or pipes, used or intended to be used to convey heated air or steam in any building, unless such flues or pipes be cased with metal, leaving a free circulation of air all around the same.

No smoke-pipe shall pass through any stud or wooden partitions, whether plastered or not, without being guarded either by a double collar of metal with at least four inches' air-space and holes for ventilation, or by a soapstone ring not less than three inches in thickness, and extending through the partition.

Smoke-pipe.

SECT. 4. Whoever violates any provision of the preceding sections of this ordinance shall be liable to a fine not exceeding one hundred dollars.

ORDINANCE XXII.

Gunpowder and Other Explosive Compounds.

Pub. Stats.,
chap. 102, § 56.

SECTION 1. No person shall keep or deposit any gunpowder within the city, unless it is well secured in tight casks or canisters.

No person to
keep or de-
posit gunpow-
der, unless,
etc.

No person shall keep or deposit more than fifty pounds of gunpowder in any shop, store, or other building which is within the distance of twenty-five rods from any other building or wharf; no person shall keep or deposit more than twenty-five pounds of gunpowder in any shop, store, or other building which is within the distance of ten rods from any other building; and no person shall keep or deposit more than one pound of gunpowder in any shop, store, or other building which is within ten rods of any other building, unless it is well secured in copper, tin, or brass canisters, holding not exceeding five pounds each, and closely covered with copper, brass, or tin covers.

Limit of
amount.

Licenses.

SECT. 2. Licenses may be granted by the Mayor and Aldermen, for the retailing of gunpowder, in form substantially as follows; to wit: —

Gunpowder License No. .

LICENSE TO SELL GUNPOWDER IN THE CITY
OF NEWTON.

This certifies that _____ of Newton is (or are) hereby licensed and authorized to sell gunpowder at retail, at _____ on _____ Street, being _____ place of business in said city, for one year from the date hereof, at noon, provided _____ shall duly conform to the laws and to the provisions of the ordinance printed hereon. And in case the said _____ shall at any time during the term aforesaid infringe the laws, or any of the provisions of the said ordinance, then this license shall be void.

Dated at Newton this _____ day of _____ in the year of our Lord one thousand eight hundred and _____ .

No person shall sell any gunpowder within the city without such license. Every such license shall be in force one year from the date thereof, provided that any such license may be rescinded by the Mayor and Aldermen, at their discretion.

Sales without license prohibited.

License may be rescinded.

SECT. 3. Every person so licensed shall keep a sign over the outside of the principal entrance from the street, of the building in which powder is kept, on which shall be printed in capitals the words "Licensed to keep and sell gunpowder."

Sign.

SECT. 4. The City Clerk shall keep a record of all such licenses, and of the places designated therein; which places shall not be changed, unless by consent of the Mayor and Aldermen, in writing. Every person who receives a license shall sign his name to a copy of the rules prescribed in this ordinance, as evidence of his assent thereto.

City clerk to keep record of licenses, etc. Place not to be changed, etc.

SECT. 5. The provisions of this ordinance shall not apply or extend to the keeping or storing of metallic cartridges in fire-proof magazines, nor to cartridge-manufacturers, so long as they shall keep their powder in canisters, as prescribed in Sect. 4, and in fire-proof magazines, located and built to the satisfaction of the Mayor and Aldermen, and so long as such manufacturers allow no more than one hundred pounds of gunpowder in any magazine, or five pounds of gunpowder not made into cartridges, to be in any one workshop at any one time.

Exceptions.

Keeping in magazines.

SECT. 6. No person, except on military duty in the public service of the United States or of this Commonwealth, shall keep, have, or possess, in any building, place, vehicle, ship, or other vessel within one rod of a dwelling-house, any explosive compound other than gunpowder, in quantity exceeding one-fifth of a pound.

Pub. Stats., chap. 102, §§ 59, etc.

SECT. 7. The Mayor and Aldermen may license any suitable person to keep, store, and sell such compound, in accordance with the foregoing provisions.

Licenses.

SECT. 8. Any member of the police or of the Fire Department may enter the building or premises of any person so licensed, to make the examination provided by law, at his discretion, and on alarm of fire may cause such compound there deposited to be removed or destroyed, as the case may require.

Penalty.

SECT. 9. Whoever violates any provision of this ordinance shall be liable to a fine not exceeding twenty dollars.

STATISTICS OF THE NEWTON FIRE DEPARTMENT,

From Jan. 1, 1883, to Dec. 31, 1883.

Number of telegraph-alarms	65
Number of verbal and telephone alarms	36
Total of alarms	101
Aggregate number of alarms, 1882	59
Increase in number of alarms	42
Alarms given by citizens	74
Alarms given by firemen	16
Alarms given by police	11
Losses on real estate	\$5,903.00
Losses on personal property	\$1,163.00
Insurance paid on real estate	\$5,045.00
Insurance paid on personal property	\$833.00
Loss in excess of insurance paid	\$1,188.00
Total insurance at risk	\$180,683.50
Assessed value of real estate at risk	\$204,690.00
Annual appropriation for Fire Department	\$24,000.00
Number of employees and members of department	79
Number of hydrants	402
Population of city	20,000
Area protected by Fire Department	20 square miles.

CITY OF NEWTON.

ANNUAL REPORT

OF THE

CITY ENGINEER

FOR THE YEAR 1883.



BOSTON :

PRINTED BY RAND, AVERY, & COMPANY,

1884.

OFFICERS OF CONTROLLING BOARDS AND COMMITTEES.

Chief Executive Officer (ex officio).

HIS HONOR THE MAYOR, WILLIAM P. ELLISON.

Joint Standing Committee on Highways.

ALDERMAN DWIGHT CHESTER, *Chairman*.

Water Board.

EDWARD W. CATE, *President*.

Joint Standing Committee on Public Property.

ALDERMAN JAMES R. DEANE, *Chairman*.

Joint Standing Committee on Parks.

ALDERMAN JOHN Q. HENRY, *Chairman*.

Board of Health.

ALDERMAN JAMES R. DEANE, *President*.

Joint Special Committee on Sewerage.

ALDERMAN DWIGHT CHESTER, *Chairman*.

CITY ENGINEER'S DEPARTMENT.

City Engineer.

ALBERT F. NOYES.

Principal Assistant Engineer in Charge of Office, and Draughtsman.

HENRY D. WOODS.

Principal Assistant Engineer in Charge of Field-Work.

FRED. H. BARNES.

Assistant Engineers.

WILLIAM S. FRENCH.

I. W. HASTINGS.

Transitman and Leveller.

WILLIAM P. MORSE.

Rodmen.

ARTHUR L. WOODRUFF.

STEPHEN CHILDS.

REPORT.

CITY ENGINEER'S OFFICE, CITY HALL,
WEST NEWTON, MASS., Dec. 31, 1883.

To the Honorable City Council.

GENTLEMEN,—In compliance with Section 5 of Ordinance No. 9, I herewith respectfully submit the Annual Report of the City Engineer's Department for the year 1883.

Amount appropriated for the year 1883 . . .	\$6,000 00
Amount transferred from general appropriation for highway widenings and improvements . . .	125 00
Amount transferred from general appropriation for public property	125 00
Amount transferred from general appropriation for water maintenance	125 00
Amount transferred from general appropriation for parks	125 00
Total amount appropriated for department	\$6,500 00
Total amount expended	6,769 50
Amount overdrawn	\$269 50

CLASSIFICATION OF EXPENDITURES.

For salaries of city engineer, assistants, draughts- man, and rodmen	\$5,838 00
For car-fares and other incidentals	252 91
For new horse and blankets	264 00
<i>Amount carried forward</i>	<i>\$6,354 91</i>

<i>Amount brought forward</i>	\$6.354 91
For care and keeping of horses and wagon	232 52
For instruments and repairs	56 35
For horse-hire	56 75
For drawing-paper and other supplies	39 66
For repairing wagon and harness	29 31
<hr/>	
Total amount	\$6,769 50

The item of salaries of city engineer and assistants may be divided as follows:—

For defining street-lines; making surveys and maps for street-widenings, acceptance, and extension; office records; highway accounts; defining and establishing proposed grades of streets; surveys, plans, and estimates for proposed work on highways; and all work relating to highways	\$1,845 13
For giving lines and grades for the construction of drains and culverts, making preliminary surveys, plans, profiles, diagrams, estimates, calculations, and all work relating to drains,	157 47
For establishing lines and grades for the extension of water-pipes, locating and measuring service-pipes, designing and superintendence of work at the pumping station and filtering basin, and for all work relating to water-works	883 95
For defining the lines, surveys, and plans of city property, making plans and specifications for, and superintending the construction of, new buildings, and the alterations and repairs on old buildings, under the direction of the Joint Standing Committee on Public Property	1,172 52
<hr/>	
<i>Amount carried forward</i>	\$4,059 07

<i>Amount brought forward</i>	\$4,059 07
For defining the lines, making surveys and plans of Farlow Park and for the proposed Central Park; for the examination of the titles and boundaries of the various estates and lands included within said parks; for superintending the laying-out and grading of Farlow Park; for attendance at the meetings of the committee and the hearings before the City Council; and for all other work under the direction of the Joint Standing Committee on Parks	1,039 35
For plans, estimates, reports, inspection of plumbing, and for all work relating to the Board of Health	169 29
For copying land-plans at Registry of Deeds, and indexing the same	266 74
For making surveys and levels for plans, profiles, and estimates for the use of the City Solicitor in suits for or against the city; for attending court, and all work relating to said suits	16 19
For all other miscellaneous work	287 36
Total amount	<hr/> \$5,838 00

Surveys have been made of the whole or a part of thirty-nine streets, covering a total length of seven miles and seven-tenths. One hundred and ten street plans and profiles have been made. Levels have been taken over the whole or a part of thirty-nine streets or brooks, — a total length of twelve miles. Lines have been established on fifty-two, and grades on fifty-five, streets.

The average number of assistants employed during the year was six; maximum number at any time, seven.

Plans and profiles have been made; lines and grades defined; the titles and boundaries of the estates abutting upon

the following-named streets have been examined; and said streets have been laid out and accepted by the City Council, — Bennington Street, from Centre Street westerly, 380 feet, 40 feet wide; Fairmont Avenue, from Centre to Claremont Streets, 1,120 feet, 40 feet wide; Turner Street, from Walnut Street to Central Avenue, 465 feet, 30 feet wide; Warren Street, from Glen Avenue easterly, 630 feet, 40 feet wide. Boylston Street, Ward Five, between Centre Street and Woodward Street, was relaid out 60 feet in width.

The highway and town papers have been classified, indexed, and filed in the large safe in the basement.

All actions of the Board of Aldermen relating to highways, drains, etc., have been indexed by streets, or under their respective heads, for reference.

Copies of all Newton (street, railroad, and land) plans on file at the Registry of Deeds and other county offices, and a complete index of the same, are being made.

The large amount of additional work required by the committees on Public Property and Parks, not being anticipated at the beginning of the year, was not provided for in making the appropriation for the department; which accounts for the additional appropriation made necessary.

Perambulation of Town and City Lines.

A special committee, consisting of Aldermen Chester and Henry, City Clerk I. F. Kingsbury, and the City Engineer, appointed to represent the Board of Aldermen, together with a committee of the Selectmen of the town of Waltham, on July 12, 1883, perambulated the line, and established anew the boundaries between said city and town according to law.

HIGHWAY DEPARTMENT.

HIGHWAY SURVEYORS AND JOINT STANDING COMMITTEE ON HIGHWAYS.

ALDERMAN DWIGHT CHESTER, *Chairman.*

ALDERMAN JOHN Q. HENRY.

COUNCILMAN WILLIAM B. YOUNG.

COUNCILMAN AUSTIN R. MITCHELL.

COUNCILMAN JAMES H. NICKERSON.

EXECUTIVE OFFICERS.

Superintendent of Streets.

WILLIAM E. FULLER.

Assistant Superintendents of Streets.

GEORGE E. STUART, Wards 1, 2, and 7.

JOHN J. WARE, Wards 4 and 5.

JOHN A. PECK, Ward 6.

City Engineer.

ALBERT F. NOYES.

HIGHWAYS.

The management of the highways, the ordinary repairs, the building or rebuilding of all streets, drains, culverts, sidewalks, etc., and the gravel lands, are under the general direction of the Joint Standing Committee on Highways, Streets and Ways, Sidewalks, Drains and Sewers, and the Highway Surveyors.

The Committee on Highways and the Superintendent of Streets have continued their policy of the past three years, of thorough work in whatever was undertaken, with equally satisfactory results.

Highways, General Repairs.

Amount appropriated by order of the City Council for highways, general repairs, for the year ending Jan. 1, 1884	\$55,000 00
Amount transferred from receipts for work performed for Boston and Albany Railroad Company	5,145 79
Amount transferred from appropriation for drains and culverts	2,000 00
Amount transferred from appropriation for gravel lands	800 00
Amount transferred from appropriation for land damages	800 00
 Total appropriation	 \$63,745 79
Amount expended as per Auditor's records	63,003 47
 Balance unexpended	 \$742 32

The following table will show in detail the amount expended on each street for maintenance, as made up from the Superintendent's and Assistant Superintendent's records of work:—

Alpine	\$28 88
Arlington	74 53
Ash	104 22
Auburn	417 11
Auburndale Avenue	33 25
Baldwin	5 25
Beacon	2,788 54
Bellevue	119 25
Belmont	9 42
Bourne	121 58
Bowers	115 75
Boylston	21 50
Bridge	3 25
Brookline	75 00
Cabot	27 90
Cedar	504 59
Cemetery Avenue	36 50
Central Avenue	40 25
Central	70 29
Centre	3,153 33
Channing	88
Cheney	7 50
Cherry	92 75
Chestnut	161 65
Church	188 88
Cook	1 75
Crafts	149 00
Cross	5 25
Cypress	419 59
Davis	3 50
Dedham	300 00

Amount carried forward \$9,081 14

<i>Amount brought forward</i>	.	.	.	.	\$9,081 14
Dudley . . . . .	.	.	.	.	75 00
Durant . . . . .	.	.	.	.	12 75
Eldridge . . . . .	.	.	.	.	90 72
Elliot . . . . .	.	.	.	.	278 11
Ellis . . . . .	.	.	.	.	21 50
Elm . . . . .	.	.	.	.	397 75
Elmwood . . . . .	.	.	.	.	2,380 75
Fairmont Avenue . . . . .	.	.	.	.	9 25
Farwell . . . . .	.	.	.	.	47 25
Florence . . . . .	.	.	.	.	69 75
Forest Avenue . . . . .	.	.	.	.	66 00
Fountain . . . . .	.	.	.	.	127 12
Franklin . . . . .	.	.	.	.	10 50
Fuller . . . . .	.	.	.	.	92 90
Grant Avenue . . . . .	.	.	.	.	365 70
Green . . . . .	.	.	.	.	40 00
Greenough . . . . .	.	.	.	.	14 00
Greenwood . . . . .	.	.	.	.	11 00
Grove . . . . .	.	.	.	.	304 05
Hammond . . . . .	.	.	.	.	67 50
Hancock . . . . .	.	.	.	.	70 74
Harvard . . . . .	.	.	.	.	13 50
Hawthorne Avenue . . . . .	.	.	.	.	56 66
Henshaw . . . . .	.	.	.	.	9 33
High . . . . .	.	.	.	.	12 50
Highland Avenue . . . . .	.	.	.	.	45 50
Highland . . . . .	.	.	.	.	823 12
Hillside Avenue . . . . .	.	.	.	.	41 37
Homer . . . . .	.	.	.	.	667 55
Hovey . . . . .	.	.	.	.	6 13
Hunter . . . . .	.	.	.	.	7 88
Hyde . . . . .	.	.	.	.	327 26
Ivanhoe . . . . .	.	.	.	.	12 84
Jackson . . . . .	.	.	.	.	39 42
<i>Amount carried forward</i>	.	.	.	.	<hr/>\$15,696 54

<i>Amount brought forward</i>	.	.	.	.	\$15,696	54
Jefferson	.	.	.	.	223	25
Jewett	.	.	.	.	28	00
Kenilworth	.	.	.	.	12	83
Lake Avenue	.	.	.	.	195	98
Lander	.	.	.	.	4	38
Lexington	.	.	.	.	145	36
Linden	.	.	.	.	10	75
Maple (Ward Four)	.	.	.	.	17	50
Margin	.	.	.	.	28	01
Mechanic	.	.	.	.	10	75
Melrose	.	.	.	.	28	14
Mill	.	.	.	.	495	41
Mount Ida	.	.	.	.	7	00
Mount Vernon	.	.	.	.	177	00
Nahanton	.	.	.	.	75	00
Newtonville Avenue	.	.	.	.	433	97
Newtonville Square	.	.	.	.	186	69
Nonantum Square	.	.	.	.	12	25
Nonantum	.	.	.	.	22	25
Oak	.	.	.	.	21	50
Otis	.	.	.	.	93	75
Park	.	.	.	.	15	00
Parker	.	.	.	.	369	24
Parsons	.	.	.	.	291	00
Pearl	.	.	.	.	140	25
Pelham	.	.	.	.	14	25
Pembroke	.	.	.	.	54	30
Perkins	.	.	.	.	20	12
Prospect	.	.	.	.	39	75
Putnam	.	.	.	.	10	50
River	.	.	.	.	331	33
Rowe	.	.	.	.	21	87
St. James	.	.	.	.	16	25
Sargent	.	.	.	.	35	00
<i>Amount carried forward</i>	.	.	.	.	\$19,285	17

<i>Amount brought forward</i>	.	.	.	.	\$19,285 17
Seaverns	.	.	.	.	64 56
Shaw	.	.	.	.	15 00
South	.	.	.	.	92 25
Station	.	.	.	.	35 50
Summer	.	.	.	.	280 96
Temple	.	.	.	.	27 13
Tremont	.	.	.	.	126 25
Turner	.	.	.	.	17 39
Vernon	.	.	.	.	365 97
Vista Avenue	.	.	.	.	91 82
Waban Park	.	.	.	.	47 37
Waban	.	.	.	.	17 50
Walnut Park	.	.	.	.	41 00
Walnut	.	.	.	.	493 05
Waltham	.	.	.	.	106 50
Ward	.	.	.	.	32 88
Warren Avenue	.	.	.	.	9 34
Washington Park	.	.	.	.	28 00
Washington	.	.	.	.	2,037 51
Watertown	.	.	.	.	186 90
Waverley Avenue	.	.	.	.	304 45
Webster Park	.	.	.	.	8 75
Webster	.	.	.	.	75 84
Wesley	.	.	.	.	10 50
Willow	.	.	.	.	74 70
Winchester	.	.	.	.	3 75
Winter	.	.	.	.	21 50
Winthrop	.	.	.	.	17 50
Wolcott	.	.	.	.	13 13
Woodbine	.	.	.	.	27 27
Woodland Avenue	.	.	.	.	68 19
Woodward	.	.	.	.	19 08
Boston and Albany R. R. (labor and material)	.	.	.	.	5,145 79
<i>Amount carried forward</i>	.	.	.	.	<u>\$29,192 50</u>

<i>Amount brought forward</i>	.	.	.	.	\$29,192 50
Cleaning crossings	.	.	.	.	146 94
Cleaning grates and manholes	.	.	.	.	117 64
Cleaning gutters	.	.	.	.	2,551 77
Clearing brush	.	.	.	.	13 00
Clearing streets	.	.	.	.	3 50
Gravel-pits	.	.	.	.	6,073 60
Patching streets	.	.	.	.	189 07
Paving around stand-pipes	.	.	.	.	94 50
Picking stones	.	.	.	.	1,275 14
Removing snow	.	.	.	.	6,313 01
Stable-work	.	.	.	.	176 60
Steam roller	.	.	.	.	59 50
Street-signs	.	.	.	.	81 39
Turning water from streets	.	.	.	.	3 50
Water department	.	.	.	.	1 75
Watering streets	.	.	.	.	25 25
Miscellaneous	.	.	.	.	4 50
					<hr/>
					\$46,323 16

HIGHWAY WIDENINGS AND IMPROVEMENTS.

Amount appropriated by the City Council for highway widenings and improvements	.	\$10,000 00
Amount expended	.	9,815 11
Amount charged to appropriation for highway widenings and improvements, as per audi- tor's records	.	9,794 89
Amount charged to appropriation for improve- ments on public squares	.	18 75
Amount charged to appropriation for drains and culverts	.	1 47

The above amount has been expended on the following-named streets : —

Adams Street, Wards 1 and 2, near the corner of
Washington Street:—

For labor, etc., as per rolls . . . \$428 56
For building fences, and extending
culvert, as per bills . . . 173 83

\$602 39

Bowers Street, Ward 2, fence at the Methodist
Church, as per bill

2 52

Central Street, Ward 4, Woodland Avenue west-
erly to the end

799 66

Lake Avenue, Ward 5, near the estate of Moses
G. Crane

351 42

Lake Avenue, Ward 6, at northerly end of Crys-
tal Lake:—

For labor, etc., as per rolls . . . \$285 74
For building wall, etc., as per bills . 301 94

587 68

Maple Street, Ward 4, Central Street to Wood-
land Avenue:—

For labor, etc., as per rolls . . . \$232 50
For capping wall, etc., as per bills . 203 70

436 20

Murray Street, Ward 2, Otis Street to Highland
Avenue:—

For labor, etc., as per rolls . . . \$1,581 48
For material, fences, etc., as per
bills 142 00

1,723 48

Needham Street, Ward 5

10 50

Summer Street, Ward 5, Chestnut Street to High
Street:—

For labor, etc., as per rolls . . . \$662 25
For building fences, steps, etc., as
per bills 79 09

741 34

Amount carried forward \$5,255 19

<i>Amount brought forward</i>	\$5,255 19
Sumner Street, Ward 6, near estate of Dr. Alvah Hovey:—	
For labor, etc., as per rolls	\$10 88
For concrete, etc., as per bills	82 73
	<hr/>
	93 61
Walnut Street, Ward 2, near Watertown Street, on estate of George W. Gould	40 13
Ward Street, Ward 6, Sumner Street to Grant Avenue:—	
For labor, etc., as per rolls	\$1,979 01
For material, etc., as per bills	137 27
	<hr/>
	2,116 28
Miscellaneous	127 67
Portable crusher and engine	2,182 23
	<hr/>
	\$9,815 11

CURBING.

Amount appropriated by order of the City Council for curbing, for the year 1883	\$1,500 00
Amount expended	1,553 24
Amount charged to appropriation for curbing	1,500 00
Amount charged to appropriation for highways, general repairs	53 24

The following table shows the number of linear feet, kind and cost of curbing, which has been laid:—

Curbing laid in 1883.

STREET.	WARD.	LINEAR FEET STRAIGHT CURBING.	LINEAR FEET CURVED CURBING.	TOTAL LENGTH OF CURBING.	COST.
Adams	2	377.92	48.33	426.25	\$338 80
Auburn	4	—	8.50	8.50	10 47
Bowers	2	181.42	22.00	203 42	136 83
Centre	7	27.00	—	—	33 95
Elmwood	7	593.50	23.60	617.10	537 00
Grove	4	—	—	—	4 75
Highland (unloading) .	3	—	—	—	3 08
Maple	4	—	8.50	8 50	10 48
Mount Vernon	3	178.70	6.30	185 00	137 28
Newtonville Square . .	2	63.00	69.80	132.80	116 94
Vernon	7	17.50	—	17.50	9 15
Washington	3	—	13.33	13.33	69 39
Miscellaneous (unloading)	—	—	—	—	4 37
Stock	—	181.00	66.22	247.22	140 75
		1,593.04	266.58	1,869.62	\$1,553 24

SIDEWALKS.

Amount appropriated by order of the City Council for sidewalks for the year 1883 . . .	\$6,000 00
Amount transferred from receipts for work performed for Boston and Albany R.R. Co. . .	261 30
Total amount of appropriation . . .	\$6,261 30
Amount charged to appropriation for sidewalks .	6,300 65
Amount overdrawn	39 35
Amount charged to appropriation for drains and culverts	23 00
Amount charged to appropriation for highways, general repairs	655 61
Total amount expended	6,979 26

The cost of laying and repairing street-crossings is charged to the appropriation for highways, general repairs.

The following table shows the number of square yards of concrete sidewalk and street-crossings laid and repaired, and the cost of all gravel and concrete sidewalks.

STREET.	WARD.	SQUARE YARDS OF CONCRETE.				COST OF GRAVEL AND CONCRETE WALKS.	REMARKS.
		SIDEWALKS, NEW.	SIDEWALKS, REPAIRS.	CROSSINGS, NEW.	CROSSINGS, REPAIRS.		
Adams	2	390.08	-	-	-	\$335 15	Part gravel.
Aspen Avenue	4	-	-	-	-	21 21	Gravel.
Auburn	4	79.65	-	-	-	21 90	Laid in 1882.
Bellevue	1	209.54	-	-	-	171 68	
Bowdoin	5	-	-	-	-	14 08	Gravel.
Bowers	2	339.11	-	-	-	101 51	Partly laid in 1882.
Brook	7	10.34	-	-	-	3 71	
Cabot	2	-	-	-	-	7 00	Gravel.
California	1	-	-	-	-	15 75	Gravel.
Carleton	7	-	-	-	-	5 50	Gravel.
Central Avenue	2	-	-	-	-	10 50	
Central	4	1,297.18	-	53.67	-	545 91	Partly laid in 1882.
Centre	1, 6, 7	202.51	178.47	87.96	70.40	451 54	Part gravel; part brick.
Cherry	3	49.69	263.47	-	22.61	64 07	
Church	7	53.79	-	64.00	9.00	32 27	
Crafts	2	20.00	269.69	-	-	48 65	Laid in 1882.
Eldridge	7	7.39	-	41.31	9.00	4 44	
Ellis	5	-	-	-	-	3 75	Gravel.
Elm	3	-	-	-	-	87 50	Gravel.
Elmwood	7	543.85	76.72	135.87	-	298 33	{ Partly laid in 1882.
Emerson	1, 7	-	-	-	-	10 50	{ Part gravel; part brick.
Forest Avenue	2, 3	-	-	-	-	57 40	Gravel.
Forest	5	-	-	-	-	14 08	Gravel.

Franklin	7	2.54	583.94	-	-	154 54	Part gravel.
Glen Avenue	6	90.40	-	-	-	24 86	Laid in 1882.
Grove	4	36.14	-	-	-	62 33	Part gravel.
Hammond	6	-	-	-	-	317 74	Part gravel; part plank.
Hancock	4	-	-	-	-	18 00	Gravel.
Hartford	5	18.37	116.08	-	-	67 09	[1882.
Harvard	2	70.95	-	-	-	26 26	Part gravel; partly laid in
High	5	-	-	14.53	-	-	
Highland Avenue	2	-	-	-	-	37 00	Gravel.
Highland	3	1.89	-	4.40	-	1 13	
Homer	6	57.69	-	-	-	199 00	Part gravel.
Jefferson	7	329.71	-	-	-	448 47	
Kenrick	7	-	-	-	-	17 50	Gravel.
Lake Avenue	5, 6	48.53	-	-	-	66 06	Part gravel.
Margin	3	-	-	-	-	7 00	Gravel.
Mount Vernon	3	196.86	-	-	-	280 12	Part gravel.
Murray	2	-	-	-	-	35 50	Gravel.
Newtonville Avenue	1	-	-	4.63	30.45	-	
Newtonville Square	2	37.12	-	-	-	127 52	Gravel.
Nonantum Place	7	-	-	-	-	1 75	Gravel.
Nonantum	7	-	-	-	-	26 50	Gravel.
Norwood Avenue	6	250.31	-	-	-	68 83	Laid in 1882.
Pearl	1	-	-	37.70	-	123 75	Gravel.
Pembroke	7	-	-	-	-	50 75	Gravel.
Pettee	5	1.60	-	46.25	-	17 21	
Pleasant	6	132.81	-	-	-	101 71	
Prospect	3	-	-	-	-	8 75	Gravel.
River	3	-	-	-	-	66 00	Gravel.
<i>Am'ts carried forward</i>	. . .	4,478.05	1,488.37	490.32	141.46	\$4,681 85	

STREET.	WARD.	SQUARE YARDS OF CONCRETE.				COST OF GRAVEL AND CONCRETE WALKS.	REMARKS.
		SIDEWALKS, NEW.	SIDEWALKS, REPAIRS.	CROSSINGS, NEW.	CROSSINGS, REPAIRS.		
<i>Am'ts brought forward</i>							
Sargent	6, 7	4,478.05	1,488.37	490.32	141.46	\$4,681 85	
Seaverns	4	889.74	-	-	-	375 07	
Station	6	-	-	-	-	37 29	Gravel.
Summer	5	214.25	-	-	-	85 13	Gravel.
Sumner	6	211.51	-	-	-	108 08	
Turner	2	-	-	-	-	113 64	
Vernon	7	30.00	-	-	-	26 25	Gravel.
Vista Avenue	4	-	61.17	-	-	18 03	Laid in 1882.
Walnut	2, 5	102.04	-	-	-	21 20	Gravel.
Waltham	-	-	-	86.39	102.29	379 43	Part gravel; partly laid in
Ward	6	-	-	13.77	-	3 50	Gravel.
Washington	1, 2, 3, 4, 7	282.56	263.91	-	-	20 50	Gravel.
Watertown	1, 2, 3	60.02	-	229.35	191.10	483 97	Part gravel.
Waverley Avenue	7	-	-	-	-	191 25	
Wesley	1	193.76	-	22.71	-	252 50	Gravel.
William	7	62.43	-	-	-	101 88	
Winter	5	-	-	-	-	29 37	
Miscellaneous	-	-	-	-	-	14 75	Gravel.
						35 57	
		6,524.36	1,813.45	842.54	434.85	\$6,979 26	

SUMMARY OF EXPENSES CHARGED TO THE APPROPRIATION FOR HIGHWAYS, GENERAL REPAIRS.

For maintenance, as per superintendent's records	
of work	\$46,323 16
For curbing, in excess of appropriation	53 24
For concrete and gravel sidewalks, in excess of appropriation	655 61
For miscellaneous expenses, as per sundry bills in auditor's report	15,971 46
	<hr/>
Total amount expended	\$63,003 47

An order recently passed the City Council for the purchase of a portable stone-crusher and engine, and the sale or exchange of the engine and crusher at the Pine-street gravel-pit. Contracts have been made with the Farrel Foundry and Machine Company of Ansonia, Conn., for a 9-inch by 15-inch Marsden and Farrel portable crusher; and with John H. Houghton of Boston, for the delivery of a Lidgerwood portable hoisting and pulley engine, with 7-inch by 9-inch double cylinders, and 40-inch by 83-inch vertical boiler, with house-fixtures and every thing complete. These are intended for crushing stone at points in the city where stone can be easily collected, and where no crusher is at present located.

The policy of the town and city governments for the past twelve or fourteen years has been to encourage the laying of concrete (coal-tar and pitch-mastic) sidewalks; so that now there is a considerable mileage of concrete sidewalks laid. With no special repairs, the life of a concrete sidewalk, if unaffected by causes other than wear, has been, in this city, from six to ten or more years.

The causes for the destruction of concrete are, legitimate wear, the upheaval or breaking by the frost or the growth of roots of trees, the settlement of poor foundations, and drainage; and the greater cause by far, which is usually

assigned to wear, is the loss of the volatile oils which it contains, leaving the surface rough and brittle, to be the more readily affected by ordinary wear. The cost of these renewals, without special repairs, at the present price of laying the concrete, is from six to ten cents per year; the probable average with the best of work being about eight cents. After laying one or two years, the surface becomes slightly rough, and it is found that a thin coating of sand and tar, or pitch, if applied at this time (at a cost of about six cents per square yard), restores the smooth, pliable surface, and will last for two or three years longer, without necessity for renewal. If the sidewalk is left for four or more years, it can usually be restored by a skim-coating of fine gravel and tar, or pitch, at a cost of about thirty-five cents per square yard. It will be observed that the cost of maintaining sidewalks, without any special repairs, is about eight cents per square yard, besides the discomfort of travelling for four or more years over rough sidewalks; with occasional repairs and skim-coating, and allowing for breaks from outside causes, about the same amount as above, and perhaps one or two years' travel over a rough sidewalk; with constant repairs, as above described, and allowing for breaks from outside causes, the cost is about four or five cents per square yard. The question of economic maintenance of these sidewalks has become a serious one; and there are now miles of sidewalk needing immediate attention in order to remain safe and convenient for travel. I would therefore recommend, in view of its economy and comfort, that constant repairs be made as above described.

DRAINS AND CULVERTS.

Amount appropriated by order of the City Council for the construction of new, and the cleaning out and repairing of old drains, culverts, and catch-basins		\$14,000 00
Amount expended		\$11,929 66
Amount transferred to highways, general repairs		2,000 00
		<hr/> 13,929 66

Unexpended balance \$70 34

The following table shows the length of each kind, size and cost of drains constructed during the year, and the streets in which the same are laid : —

Drains constructed in 1883.

STREET.	SIZE, IN INCHES.	FEET OF DRAIN.	MAN- HOLES.	CATCH- BASINS.	FEET OF INLETS.	SIZE OF INLETS.	COST.	LOCATION.
Adams	10	26	-	-	-	-	\$63 07	At corner of Washington Street.
Auburn	6 5 4	-	-	7	-	-	708 62	{ Greenough Street to Rowe Street.
Bowers	6	-	-	2	-	-	110 45	Walnut Street to Depot.
Brook	36 by 36	99½	-	1	8	8	962 27	Near Elmwood Street.
Central	15	45	-	1	-	-	44 87	Near Fern Street.
Centre	8	130	-	2	-	-	171 43	Near Boston and Albany R. R.
Chapel	6	2¼	-	-	-	-	30	
Church	15 12	132 3	-	3	120	8	370 06	
Eldridge	36 by 36	37½	1	-	-	-	508 64	Near Elmwood Street.
Elm	8	210	-	2	-	-	92 84	Near River Street.
Elmwood	36 by 36	174	1	4	50 6	8 6	1,954 98	{ Brook Street to Eldridge Street.
Gardner	12	70	-	-	35	8	101 59	At Angle.
Margin	18	57½	-	-	-	-	43 13	Near Lincoln Park.
Mechanic	12	135	-	1	-	-	106 02	
Mount Ida	-	-	-	-	-	-	18 12	Corner of Newtonville Avenue.
Murray	15	401	-	3	30	8	427 15	Near Highland Avenue.
Newtonville Avenue	12 10 15	1,056 44 69	-	-	14 46	10 8	994 37	{ Mount Ida Street, westerly.
Park	15 12	12 12	-	-	-	-	76 34	{ Corner of Tremont Street.
Parsons	6	49	-	-	-	-	7 35	Near Cheese-cake Brook.
Pearl	12	825	-	5	62	8	926 05	Laundry Brook to Eliot School.

Prospect	15	595	-	8	26	10	794 07	} Cheese-cake Brook to near Temple Street. Near Pine Street. At Lexington Street. At Boston and Albany R.R. Near Turner Street. Near Crafts Street.
River	12	145	-	1	60	8	88 00	
Seaverns	12	108	-	-	72	6	19 39	
Walnut	9	26	-	1	-	-	52 82	
Walnut	8	60	-	1	-	-	41 51	
Waltham	8	30	-	1	-	-	36 92	
Waltham	6	101 $\frac{1}{4}$	-	1	-	-		
		4,643	2	43	529		\$8,720 36	

CULVERTS AND CATCH-BASINS.

The following tables show the lengths, size, and cost of the culverts or catch-basins constructed or reconstructed during the year, and the name of the street in or under which they are laid.

Culverts constructed and reconstructed in 1883.

STREET.	SIZE, IN INCHES.	LENGTH, IN FEET.	COST.	LOCATION.	REMARKS.
Adams	-	-	\$37 50	Laundry Brook.	Extension.
Bellevue	6	33 $\frac{1}{4}$	9 74	Under Driveway.	Repaired.
Cabot	-	-	5 00	Near Harvard Street	Repaired.
Crafts	-	-	1 75	Near Cheese-cake Brook.	Repaired.
Margin	-	-	31 75	Corner of Putnam Street.	Repaired.
Park	-	-	7 50	Corner of Vernon Street.	Repaired.
Vernon	-	-	7 50	Corner of Park Street.	Repaired.
Washington	-	-	4 00	Near Adams Street.	Repaired, under sidewalk.
Washington	-	-	19 57	Brighton Hill.	Repaired.
Watertown	-	-	3 50	Near Eden Avenue.	Repaired, under sidewalk.
Watertown	-	-	3 90	Near Chandler Street.	Repaired, under sidewalk.
Waverley Avenue	-	-	10 75	Under Driveways.	Repaired.
Winchester	-	-	28 13		Repaired.
			\$170 59		

Catch-Basins constructed and reconstructed in 1883.

STREET.	LOCATION.	COST.	REMARKS.
Centre	Near Public Library	\$27 38	New covers.
Centre	Near Wesley Street	5 25	
Centre	At Newton Centre	33 75	
Hammond	Near Boston and Albany R. R.	39 76	
High	Near Pettee Street	31 39	Rebuilt
Highland Avenue	Near Walnut Street	220 75	
Highland	Corner of Margin Street	18 47	
Homer . . . . .	. . . . .	22 07
Lake Avenue	8 82	Covers changed.
Maple (Ward 4)	Corner of Auburn Street	61 06	Covers changed.
Parker . . . . .	. . . . .	8 82
Pettee	Near High Street	33 40	Covers changed.
Rowe	Near Boston and Albany R. R.	48 32	
Station . . . . .	. . . . .	24 32
Walnut Park	Near Washington Street	14 70	
Warren	11 63	Two new catch-basins. Rebuilt. Repairs.
Washington	Near Greenwood Avenue	24 93	
Washington	Near Adams Street	52 89	
Washington	Ward 3	1 75	
Washington	Ward 4	26 03	
Waverley Avenue	Repairs	25 97	
		52 44	
		\$793 90	

Miscellaneous Expenses for 1883.

Arlington Street, 2 Concord grates	\$14 70
Boyd-street ledge, excavating rock	160 00
Boylston Street, repairs on Bridge over Charles River	162 47
Bridge Street, arch rebuilt, and bridge repaired, over Charles River	568 96
Cement, 9½ barrels	15 20
Cheese-cake Brook, cleaning out and repairs	44 00
Cleaning catch-basins and culverts	741 50
Covering-stone, 272¾ feet of 3-feet 41 22	
Covering-stone, 33¾ feet of 4-feet } 20 63	
Covering-stone, 26 feet of 6-feet }	61 85
Elliot Street, labor	7 12
Elmwood Street, bricks (used for sidewalks)	23 00
Farlow Park, cement	1 47
Jefferson Street, cement (used for wall, general repairs)	17 87
Linwood-avenue drain, cleaning out	24 75
Murray-street Brook, cleaning out	30 13
Newtonville drain, cleaning out and repairs	60 38
Removing covering-stones	13 69
Shaw Street	32 25
Station Street	8 50
Stock on hand:—	
1,115 bricks	\$12 27
half-barrel cement	74
15 feet of 12-inch cement pipe	5 85
599 feet of 3-feet covering-stone	75 90
771 feet of spruce lumber	13 11
	<hr/>
	107 87
Summer Street, cement (used for widenings)	1 47
Tremont Street, covering-stone (used around stand-pipe)	4 08
	<hr/>
Amount carried forward	\$2,102 63

<i>Amount brought forward</i>	\$2,102 63
Walnut Street, at gristmill, fence	17 05
Washington Street, labor	19 00
Washington Street, covering-stone (used around stand-pipe)	2 27
Washington Street, repairs on bridge over Charles River	34 81
Watertown Street, Cate's stable, cement-pipe . .	12 32
Waverley Avenue, building fence around drain at the ash-dump	15 00
Sundries	41 73
	<hr/>
	\$2,244 81

Summary of Expenses.

Drains constructed	\$8,720 36
Culverts constructed or reconstructed	170 59
Catch-basins constructed or reconstructed . .	793 90
Miscellaneous expenses	2,244 81
	<hr/>
Total	\$11,929 66

Of the above amount expended, \$23 should have been charged to sidewalks, \$1.47 to parks, \$1.47 to highways, widenings and improvements, and \$24.22 to highways, general repairs.

ASHES.

The collection of ashes is made by the highway department, under the direction of the highway surveyors.

Amount appropriated by order of the City Council for the collection of ashes for the year

ending Jan. 1, 1884	\$3,000 00
Amount expended	2,265 60
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Balance unexpended	\$734 40
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The following table will show the cost of the collection of ashes for each ward, and the day of the week on which the collection is made:—

Wards 1 and 7, Thursday	\$722 52
Ward 2, Friday	255 94
Ward 3, Saturday	254 81
Ward 4, Monday	252 44
Ward 5, Tuesday	251 94
Ward 6, Wednesday	255 19

Cost of labor, as per superintendent's record of work	\$1,992 84
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For miscellaneous expenses, as per sundry bills in auditor's report	272 76
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Total amount expended	\$2,265 60
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WATER DEPARTMENT.

WATER BOARD.

EDWARD W. CATE, *President.*

Members at Large.

FRANCIS J. PARKER.

FRANCIS A. DEWSON.

Representatives of the City Council.

ALDERMAN J. WESLEY KIMBALL.

COUNCILMAN FRED. W. FREEMAN.

EXECUTIVE OFFICERS OF THE WATER BOARD.

Clerk and Water Registrar.

ALBERT S. GLOVER.

Superintendent.

H. N. HYDE, JUN.

Inspector.

J. CLIFTON WHITNEY.

City Engineer.

ALBERT F. NOYES.

WATER DEPARTMENT.

In connection with the Water Department, there have been located one hundred and seventy services and extensions laid during the year. Lines and grades for the laying of water-mains have been established on twenty-nine streets, and all special castings have been located, and the regular meetings of the Water Board attended.

PUMPING-STATION.

The setting of the pumps and engines upon the new foundations, begun in 1882, was completed early in the year; and the smooth and even working of the pumps attests the solidity of the foundations. A new twenty-four inch force main, with check-valve and gate, was laid from the pumps in their new position to the Y in the yard.

The small feed-pump was lowered, and a large cast-iron reservoir made for the more perfect heating of the feed-water.

Feeling that there might still be cavities beneath the planking of the pump-well, borings were made with a quarter-inch bell-hanger's auger, which showed that spaces existed under nearly the whole bottom of the well, varying in depth from nothing to ten or more inches. It was therefore decided to inject cement-grout under the plank in order to make every thing as solid as possible. The well was 29 feet 9 inches long by 9 feet 10 inches wide, and about 14 feet deep, with a screen and gate-chamber 5 feet 4 inches by 4 feet 6 inches, of the same depth as the main well.

As the water-pressure against the bottom of the well, when

empty, was equal to ten feet of head, it was necessary to bore through the planking under a head equal to that in the ground outside. Cast-iron flanges were made fast to the plank bottom by lag-screws. A length of three-inch pipe twelve feet long was screwed into the flange. The pipe was filled with water, and the plank bored with a long-handled auger. To insure the perfect filling of all cavities, four of these three-inch pipes were placed equidistant from each other through the centre of the well, and ten two-inch pipes, used merely for vents, were placed on the extreme sides and corners of the well. The main three-inch pipes were carried to the level of the engine-room floor by the addition of a length of pipe to each; and the cement-grout poured from this floor had a head or pressure equal to thirteen feet.

The grout used was of clear Portland cement (Lion brand) mixed to a consistency of thick cream. The mixing-boxes were two in number, five feet long, four feet wide, and one foot deep, placed side by side, and each divided into two sections by a partition in the middle. Each side of the partition was a two and a half inch hole, with a wooden plug. On the under side was fastened a galvanized iron chute to the cement towards a galvanized iron funnel, which was set on the top of the pipe. The mixing of the grout in each section of the boxes was continuous, so that a steady stream was running into the pipe from the commencement of the work to the finish.

The pouring was commenced upon a pipe at the extreme end of the well, and the thoroughness of the work was shown by the water gradually rising in each of the other pipes, and finally filling each with solid cement. Sixteen and a half barrels of cement were thus used; but I estimate about one and a half barrels as wasted in the several pipes and in the overflow. I therefore estimate that about fifteen barrels were actually injected. Further borings showed that the cement extended at least six or eight feet beyond any of the vent-pipes, and how much farther it may have extended I have no means of knowing.

The work upon the foundations of the large pumps showed that the walls of the pump-well were badly cracked and broken by the various settlements. It was decided to grade up the bottom so that it would pitch towards the gate, to lay a four-inch brick invert in the bottom, to line each wall with eight inches of brick-work, and to construct three additional cross-walls, — one twenty inches thick, and two twelve inches thick, one on each side of the suction-pipe.

The contract for performing this work was awarded to H. Bellamy, W. A. Fogwill, and J. Foster.

About nine inches of concrete were required at the north end of the well, running to nothing in the centre, in order to bring the bottom to a level. In order to obtain sufficient depth of water under the foot-valve of the large pump, the south half of the well was shaped up with concrete instead of brick. It was intended to calk all of the leaks in the old wall before laying the brick-work; but the old wall was found to be so weak and rotten that the calking of a large leak would cause a large number of small ones to burst forth. For this reason, the calking was abandoned, and chasings cut in the wall to carry the water away from the new work as much as possible.

Portland cement was used in all the concrete, in laying the brick invert, the lower part of the walls, the three courses in the arches of the cross-walls, the tying-in of the cross-walls, and the whole north half of the well up to the top. The remainder of the work was laid in Rosendale cement.

In the north-west corner of the well the largest leak was allowed to run through a pipe until all the work was completed, when the pipe was capped. The well was made perfectly tight, and no leaks have since been discovered; showing that the work was well performed.

As the changing of the screens in the screen-chamber allowed considerable floatage to pass through, a fixed screen, extending the full width of the well, was put in place between the suction and gate. In order to clean this screen, the water is first pumped out of the well, and the screen

thoroughly washed with water from a hose: the washings are then removed in pails. For convenience in entering the well, two sets of stepping irons were placed in the walls.

A new foundation was laid beneath the Worthington auxiliary pumps and engine, and the base lowered to a level with the basement-floor, thus reducing the suction-lift about eight feet. The contract for putting in the new foundations, repairing the cellar-floors, patching the walls, building of piers for floor-posts, feed-pump, hot-well, oiler, etc., was awarded to Arthur Muldoon of Newton Centre.

The old foundations were torn down, and the bricks cleaned. In excavating for the new foundation, two-inch sheathing was used. The excavation for the first three feet was mostly quicksand and meadow-muck, after which gravel was entered, which became coarser as the excavation progressed. The excavation was carried eight feet below the basement-floor. Three feet of Rosendale cement-concrete, mixed in proportional parts of one, two, and five, was filled in for the full size of the sheathing, which was 12 feet 6 inches long, and 6 feet 8 inches wide. Upon this, 2 feet 3 inches of brick-work was built, also of the full size of the sheathing. Then the brick-work was drawn in to the size of the bed of the engine, and carried up to the level of the basement-floor.

New maple and cherry floors were laid in the engine-room, and the pump and pipes were painted and gold-striped.

The three boilers were reset, the furnaces relined, and the flues to the chimney changed, so as to pass over and between each boiler, instead of directly over, as before.

FILTERING-BASIN.

The repeated ebb and flow of the water in the filtering-basin, from each successive pumping, had caused a large quantity of the fine silt or sand to be washed from the slopes into the bottom, thus silting it so as to prevent as large an inflow of water as would otherwise have been obtained. With this condition of things, there was every indication that

there would be a shortage of water from the basin during the summer.

It was accordingly decided to give the basin a thorough cleaning. As but a week or ten days' supply could be stored in the reservoir, the basin could not be spared for a greater length of time. It was decided to separate it into two parts by building a coffer-dam across the centre, and clean one-half at a time. This dam was designed and built by John Harris of Boston. Three six-inch pumps were used for draining the part to be cleaned. The reservoir was filled to its fullest capacity, the water pumped out of the lower half of the basin, and a large force of men set at work with wheelbarrows and shovels for the removal of the silt. The immediate charge of the work of removal was given to Richard Adams, foreman of pipe-laying. The thoroughness of his work, and the economy of its removal, attest his efficiency.

In the construction of the dam, the foreman, not anticipating so rapid filling of the basin, placed, instead of drove, the upper end sheathing-planks on the river-side of the basin. During the afternoon and night before the completion of the cleaning of the lower part of the basin, a heavy rain and wind so washed the banks as to cause the water to get under a portion of the dam at the point where the planks were placed. This somewhat delayed the work, the cost of which was offset by the contractor for the dam.

From one to three or more feet of silt was removed by the cleaning of the basin. The growth of algæ appears to be more abundant and rapid, and the labor of keeping the same removed is constantly increasing.

PUBLIC PROPERTY.

JOINT STANDING COMMITTEE ON PUBLIC PROPERTY AND BURIAL-GROUNDS.

ALDERMAN JAMES R. DEANE, *Chairman.*

ALDERMAN HENRY E. COBB.

COUNCILMAN AUSTIN R. MITCHELL.

COUNCILMAN EDWARD H. MASON.

COUNCILMAN SAMUEL L. POWERS.

PUBLIC PROPERTY.

Under the direction of the Joint Standing Committee on Public Property and Burial-Grounds, the work upon the sanitary improvements of the Claflin schoolhouse were completed (for a description of the work see City Engineer's Report for 1882). The sanitary arrangements of the out-buildings have proved highly satisfactory.

While the arrangement for the ventilation of the school-rooms has been attended with excellent results, the arrangement of the furnaces has not been as satisfactory as anticipated. The large radiating surface provided for the heating and ventilating of the building during excessive cold weather cannot be, or is not, as easily controlled as was hoped; so that the heat is at times in excess of that which is needed. But care and judicious management can undoubtedly attain better results. Observations made by the teachers in each room each day during the month of February showed an evenness of temperature throughout the room unequalled in any other school visited. The consumption of coal by this arrangement will undoubtedly be larger than that by a judicious arrangement of steam-radiators in indirect coils.

Should another building be erected upon the Claflin-school lot, I would respectfully recommend that both buildings be then heated by steam.

Early in the year, the sanitary condition of our school-houses engaged the attention of the City Council, and the Special Committee of the previous year (consisting of the Joint Standing Committee on Public Property and Burial-

Grounds; Edmund W. Converse, Fisher Ames, Lincoln R. Stone, Charles H. Stone, and Isaac Hagar, on the part of the School Committee; the Health Officer and the City Engineer), which had been appointed to examine into the sanitary condition of the schoolhouses, and the necessity for additional school accommodations.

This committee held several meetings, and appointed two sub-committees,—one consisting of the members of the School Committee, to consider the necessity for additional school accommodations; and the other consisting of the City Engineer, Isaac Hagar of the School Committee, and Councilman Austin R. Mitchell of the Committee on Public Property, to consider the subject of heating and ventilating the school-buildings, the sanitary condition of the outbuildings, the various repairs and alterations necessary, and to examine the condition of the furnaces. For the result of the examinations of these committees, I would respectfully refer you to their report made to the City Council, March 26, 1883.

As a result of this report, a special appropriation of \$17,500 was made for heating, ventilating, repairing, and improving the sanitary condition of the school-buildings; of \$16,000 for erecting a new four-room school-building at Nonantum; and of \$31,000 for erecting a new eight-room building at Auburndale. Several meetings of the Committee on Public Property, local members of the School Committee, and the City Engineer, were held to examine and accept plans for the proposed new buildings. The plans of J. Foster Ober, architect, were accepted for the eight-room building, and of George F. Meacham, architect, for the four-room building. Surveys were made and grades given for the foundations of these buildings by this department.

Plans, specifications, and contracts were made, and their execution superintended, for the following work:—

On May 11, 1883, a contract was made with John Foster and John Marden for the sum of \$125 for excavating a portion of the cellar of the Public-library building, and concreted the sides and bottom. The head-room under the floor-joists

was only $3\frac{1}{2}$ to $4\frac{1}{2}$ feet, the general level of the cellar being about 3 feet below the floor-girders. An area 11 by 24 feet, and a passage to the front cellar 5 feet wide, were excavated, and the floor covered with 4 inches of concrete, giving 8 feet of head-room at the furnace, and 6 feet under the floor-joists in the passage. The sides of this excavation were protected by a concrete wall 12 to 18 inches thick all along the outside edge, against the foundation-wall of the building, with a footing of concrete 12 inches thick and 24 inches wide. This wall was run up 30 inches, made of concrete rammed in tightly behind a plank framework. The concrete used was mixed in the proportion, 1 part Rosendale cement, 2 parts clean sand, and 5 parts screened gravel. The work necessitated the removal of four of the brick piers supporting the floor-joists. These were rebuilt from the new bottom with a foundation of 18 inches of ledge-stone, and were well wedged up under the floor-timbers, the whole being laid in cement-mortar. A new No. 10 Chilson furnace with a brick casing was put in place of the old one. The total cost of the work and furnace was \$372.84, the city furnishing the cement for the concrete.

On May 17, 1883, a contract was made with F. H. Humphrey for \$115 for putting up a ventilating-shaft for the outbuildings of the Williams schoolhouse. A 12-inch galvanized-iron pipe was run over the ceiling of the building, with 3-inch branches running to each seat, and an 8-inch branch with hood over the urinals. This pipe ended in a galvanized iron box 3 by 2 by $1\frac{1}{2}$ feet, connected to a 12-inch pipe run up outside of the main building, and terminated by a globe-ventilator above the roof. This last pipe, from roof of outbuilding to the coping of the main building, is sheathed in, and painted to match building. The box at the foot of this pipe is fitted with a double-wick, Golden Star kerosene-stove with heating-drum, to furnish a draught in the whole system of pipes. The total cost of the work was \$127.

On June 14, 1883, a contract was made with T. J. Hartnett for \$258 for fitting up a bath-room at Hose House No. 5,

Auburndale. A room on the north side, lighted by a skylight near the tower, was appropriated for the purpose. The skylight was raised about 6 inches, so as to admit a flap-ventilator to be set in the side of it, and the sash arranged to open with a cord and pulleys. A 40-gallon supply-tank was set up in the closet, and connected with the main house-supply. The fixtures in the bath-room consist of a tinned, planished copper bath-tub $5\frac{1}{2}$ feet long, a 14-inch porcelain basin set in a marble slab, a porcelain water-closet with an enamelled Worcester ventilated hopper, and a 12-gallon supply-tank to water-closet; 40 feet of 2-inch wrought-iron pipe was also used as a radiator. The bath-tub and basin were fitted with hot and cold water fixtures. A 40-gallon copper boiler was set in a closet on the first floor, just below the bath-room. This boiler was sheathed in, up to and through the ceiling, to a register in the bath-room floor; a register was also placed at the floor-level on the first floor. By this means, air is supplied to the bath-room, heated by contact with the boiler. Hot water is obtained by an inch-pipe coil set in furnace in cellar, connected to boiler and tank. The coil in the bath-room is connected with the hot-water circulation for winter heating: in summer it can and should be disconnected, and all water drawn off. The soil-pipe was continued from the stable-wall up through the roof, to receive all wastes. All traps were ventilated, and a 2-inch vent pipe run through the roof. The amount of the contract covered the whole cost of the work.

The work upon the bath-room of Hose House No. 6 at Newton Lower Falls was inspected, and, so far as the erection of the soil-pipe was concerned, was made satisfactory by the contractor.

As a result of the work of the Special Committee on the Sanitary Condition of the Schoolhouses, plans were made for altering over and rebuilding the outbuildings of the Hyde, two Prospect, and Jackson schoolhouses; which alterations were made as follows:—

A contract was made with Isaac Smith and Daniel Hur-

ley, amounting to \$2,187, for rebuilding the outbuilding at the old Prospect School, altering that at the new Prospect School, and making divers repairs in both buildings. This contract was extended so as to include a new passageway from the outbuilding to the main building, new hard-pine outside steps to main building, and new rain-water conductors to main building; so that the total amount of the contract was \$2,546. The old outbuilding to the old school was removed, and replaced by a building 17 feet by 17 feet 4 inches, fitted with slate urinals and Mott's cast-iron trough water-closet.

The old vault was removed and filled up, and a brick cesspool built outside, and connected to urinals and troughs. The inside of the building was finished in pine sheathing, shellacked, with hard-pine floors except around urinals, where a cement-concrete floor was laid. On the boys' side five slate urinals were put up, flushed by a brass perforated pipe; also three closets. On the girls' side are five closets. The roof over the passages on either side is dropped a foot or so below the central roof, thus allowing hinged windows to each closet, giving a chance for direct ventilation through the closets, as the doors are set six inches above the floor, and are only five feet high. Further ventilation from troughs and urinals is obtained by a 10-inch ventilation-shaft run up at the rear of the main building, with a heater-box at the foot similar to that at the Williams School.

The outbuilding at the new Prospect School contained four double closets on the girls' side; and on the boys' side there were eight seats, a teachers' closet, and ten plank urinals: these were all removed. Two sets of three slate urinals, with a cement-concrete floor, also four closets, were put in on the boys' side, and six closets on the girls' side, with troughs. The old vault was cleaned and refilled, and a soil-pipe was run to a brick cesspool outside of the building. The ventilation is arranged the same as at the old school-building.

The overflows from the cesspools built at both school-houses, and at the hose house above, were brought into a

larger tank, from which an automatic siphon delivers all the liquid into a 5-inch drain leading to the lawn in front of the new schoolhouse, where it is distributed under the surface through 2-inch tiles laid from 8 to 12 inches below the surface. The surplus, if any should occur in winter, is taken to a long, dry well at the foot of the lawn. All this drainage-work was put in by day labor, owing to the presence of rock so near the surface in many places, which necessitated frequent changes of plan as the work progressed.

Inside of the old schoolhouse two wash-stands and fittings were placed in the schoolrooms on the first floor. New hard-pine steps, and new rain-water conductors, were put up on both sides of the building, also steps from the cellar to the outbuilding; and the cellar was reconcreted. The outside and division fences were painted three coats. At the new schoolhouse two enamelled iron sinks were set up, one on each floor, in corridor, with fittings. Four transoms were also set in the walls of passageway to each room, with rods, so as to be opened, as required, for ventilation. The total cost of the work was \$3,588.41.

On July 9, 1883, a contract was made with C. H. and A. F. Ireland for \$1,688.75 for rebuilding the outbuilding at the Hyde School. The old outbuilding contained a teachers' closet on each side, six seats on the girls' side, and seven seats and fourteen urinals (wooden) on the boys' side. The fire-escape or rear stairway, built some years ago, terminated on top of this building. In the alteration the old building was all cleared away, as the fire-escape had been built with posts running through the old building to piers below. The rear stairs were continued down to the first floor of the main building, with access from the two rooms on this floor, and outlets to the right and left into the school-yard. The cellar-stairs were carried out under these new stairs, and a building similar to that at the old Prospect School built in the rear. This contains two sets of four slate urinals, and five closets on the boys' side, and seven closets on the girls' side. The form and arrangement of the building is such, that, if a new

schoolhouse is built on the rear of the lot facing Lincoln Street, this same outbuilding could be extended and connected to it. The soil-pipe from this building connects with a large stone cesspool arched with brick, 10 feet in diameter, and about the same depth on the north-west side of the building. Half-round enamelled iron basins were set later in each schoolroom, with fittings, and waste-pipes running to a cesspool on the south-east side of the building. As the draught from the various furnaces used for heating the building was insufficient, two 8-inch cast-iron chimneys were run from the cellar to and through the roof. These were connected with the two portable furnaces, and the change was attended with very excellent results. The total cost of the work was \$2,152.69.

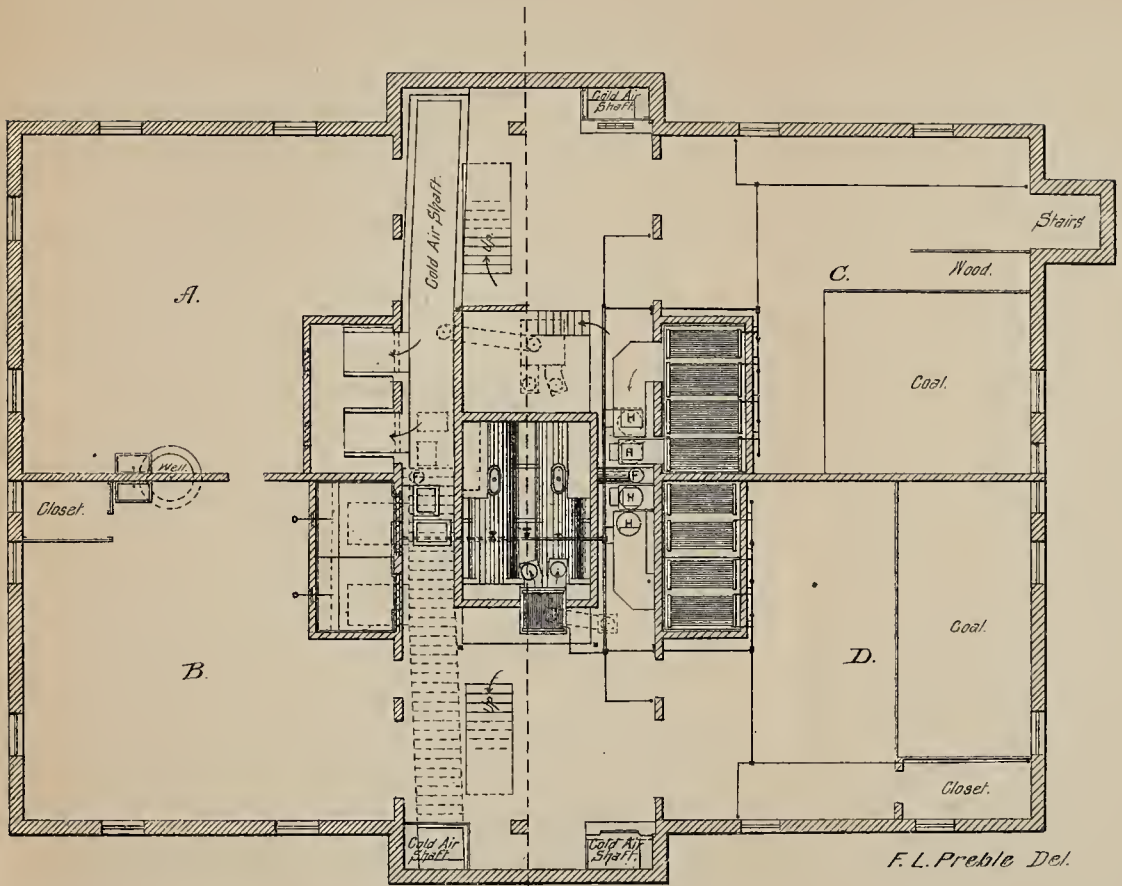
A contract was made with Isaac Smith and Daniel Hurley for \$1,430 for rebuilding the outbuilding at the Jackson schoolhouse. The old building, containing five seats on each side, and five urinals, extended back to the rear fence. This building was removed, leaving only the old stairway leading from the cellar; and the new building was run across the back of the school-building, there being no windows in the main building on this side. The girls' and boys' accommodations are thus in separate buildings. The sectional form of the building is the same as a half-section of the new buildings at the Hyde and Prospect schools. It furnishes seven girls' closets, five boys' closets, and two sets of four slate urinals. A cesspool four feet in diameter, and six feet deep, was built in each front corner of the school lot, and connected, one to each end of the building. Ventilation-pipes and heater-chambers are arranged similar to those previously described, except that, the chamber being over the cellar-stairs, there is an 11-inch main running either way, with 3-inch branches to the seats. A single-vent shaft is run up to the top of the main building, sheathed in, and terminated by a globe-ventilator. Enamelled iron basins, with fixtures, were set in each schoolroom. Cold-air chambers were built to supply each furnace, and the cold-air boxes repaired. A new floor was laid in

the cellar, and a new No. 8 Magee furnace with brick casing put in the place of one worn out. The total cost of the work was \$2,019.27.

On Aug. 23, 1883, a contract was made with Alfred Hopkins for \$748 for putting in water-heaters for the outbuildings of the Claflin, Hyde, Jackson, and Prospect schools. The apparatus consists of a cast-iron dome or coil set inside the furnace, and a circulation-pipe run to a coil in the outbuilding, with a 3-inch expansion-pipe run up through the roof, with a glass water-gauge. The supply from the house-main is connected to the return-pipe inside of the cellar. The coils are of 2-inch wrought-iron pipe of the following lengths: 95 lineal feet at old Prospect School, 72 lineal feet at new Prospect School, 99 lineal feet at Hyde School, 162 lineal feet at Claflin School, and 106 lineal feet at Jackson School. All pipes exposed to the outer air in passages are boxed in. The contract calls for apparatus sufficient to heat the coils to 200°, the outside temperature being 20°. The total cost of the work was \$748.

On July 17, 1883, a contract was made with Richard J. Morrissey for \$875 for repairs and improvements at the stables of Steamer No. 1. The old stalls and floor were removed, also the attic-stairs. A new under floor was laid with tarred paper, and an upper floor of maple. The floor-joists were straightened and levelled, old ones replaced, and new posts set. Five new stalls were built with patent iron and maple floors, with iron gutters and railings; also a bedding-room with iron grating for drying and ventilating bedding. New attic stairs and closet were built, wash-bowl and urinal relocated, and connected to drain running from stalls and floor cesspools to a new cesspool built in the yard. A new harness-closet was built, and windows cut through on west side. A dust-shoot was built from attic to cellar for floor-sweepings, with double trap-doors to keep effluvia of cellar from the attic. A line of soil-pipe was run below foot of stalls, and set with Y-branches so as to catch the flow of the gutters when the floors were washed, but set far enough away

PLATE I.

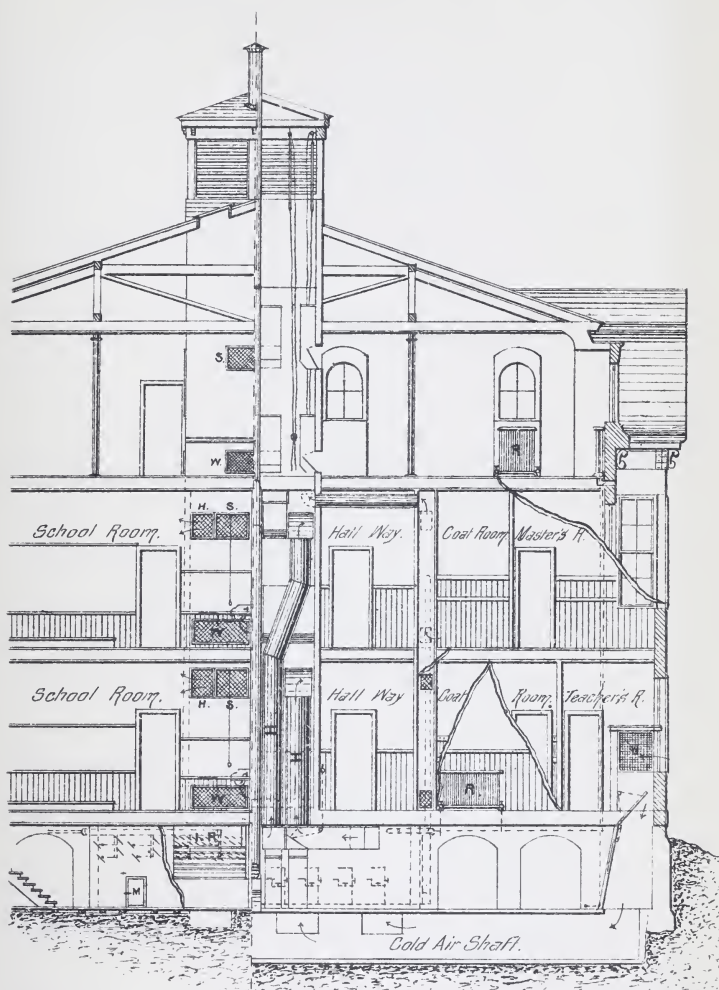


PLAN
 — Heating & Ventilating Apparatus, —
 — BIGELOW SCHOOL, —
 Ward 7, Newton.
 Scale 15 Feet to Inch.

Note: —

- H. Hot air pipes.
- F. Smoke Flues.
- A. $\frac{1}{4}$ " Flap at and below Basement Floor level.
- B. $\frac{1}{4}$ " " a little above " " "
- C. $\frac{1}{4}$ " " about $5\frac{1}{2}$ Ft. above " " "
- D. $\frac{1}{4}$ " " just below Ceiling

PLATE II.



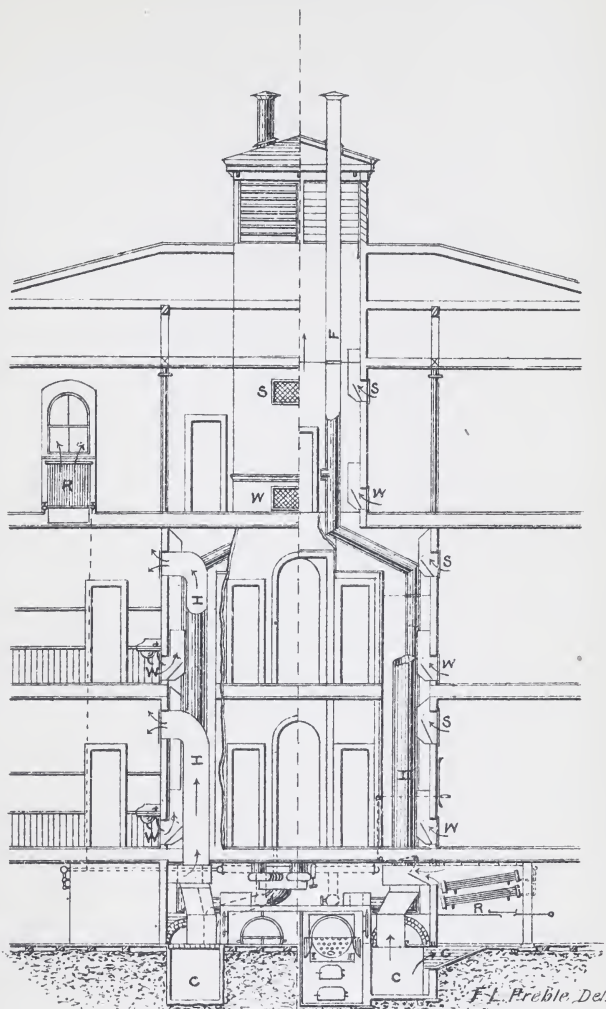
F.L. Preble Del.

HALF SECTIONS ON SHAFT.
Showing Registers & Radiators. *Showing Shafts & Pipes.*
 Scale 16 Feet to 1 inch.

Note.

- S. Summer Ventilators.
- W. Winter " "
- H. Hot air pipes &c.
- R. Radiators.
- I.R. Indirect Radiators.
- M. Manhole.
- I. Cold air inlet.

PLATE III.



— HALF SECTIONS ACROSS SHAFT. —
 Through Hot Air Pipes. Through Ventilation Pipes
 Scale 16 Feet to 1 inch.

Note.

- C. Cold air shafts.
- R. Radiators.
- H. Hot air pipes.
- W. Winter Ventilators.
- S. Summer " "
- F. Smoke Flues.

to allow ordinary drippings to fall on the manure-heap, thus keeping the floor-washings from the cellar. The total cost of the work was \$1,041.20.

On July 17, 1883, a contract was made with C. H. and A. F. Ireland for \$2,579 for the carpentry work, and with George K. Paul & Co. for \$6,335 for steam-heating and ventilating the Bigelow school-building. The four old furnaces were removed, also the two chimneys connected with them, and the partition-wall across the middle portion of the cellar. Two cold-air channels were excavated across the cellar, 4 feet below the cellar-floor, 4 feet wide in the clear, and lined with concrete from 4 to 6 inches thick.

The material being shaly rock in sloping strata, it was necessary, where the excavation neared the brick piers of the retaining-walls across the cellar, to carry these piers down in brick-work to the bottom of the excavation, first taking off the pressure of the building by cross-timbers run through the old piers. The cold-air channels were bricked over on cast-iron **L**-beams at a level with the cellar-floor. At each end a wooden shaft was run up to the first floor to form an air-inlet, having two windows to each inlet covered by wire cloth. A swinging wooden flap was hung in the corner of each inlet, so as to shut off one or the other inlet by the effect of the wind, and to prevent its blowing through the two windows without striking down into the channel.

The cellar, between the cold-air channels, was excavated from 3 to 5 feet in depth for the boilers and fire-pit, and lined with concrete and brick-work along the sides of the cold-air channels. Four brick heating-chambers were built to the full height of the cellar, with cast-iron cleaning-out doors, and connected by channels with the cold-air channels. A ventilation-shaft was run up through the old coat-rooms, where the brick chimneys were removed on each side of the building, 3 by 10 feet, and connected on third floor into one single shaft 10 by 10 feet, which projects 6 feet above the ridge of the roof, with movable blinds on each side. A passageway was built on the first and second

floors, between the front and rear hallways, with doors removed. Coat-rooms were built on each side, opening into each hallway with swinging doors. A room for a teachers' water-closet was built over the entrance to the cold-air channel, on the second floor, in one of the old teachers' clothes-closets. A master's room was partitioned off from one of the large coat-rooms. No fixtures were set in the teachers' water-closet. Cast-iron enamelled basins, with faucets, were also set in each schoolroom, trapped and ventilated, and waste-pipe run to cesspool. All the above work was included in the contract with C. H. and A. F. Ireland.

The contractors for the heating and ventilating sublet the galvanized-iron work on the flues, etc., to Moses Pond & Co. The heating-apparatus consists of two steel boilers 42 inches by 14 feet, with thirty-eight 3-inch tubes in each, set in brick-work, with all the necessary valves and fixtures, and Peerless damper-regulators. In the heating-chambers, which are lined in galvanized iron, and each divided into two sections corresponding to each schoolroom, are set stacks of 1-inch wrought-iron pipe-coils 8 feet long, giving 403 to 433 square feet of heating-surface for each room. These stacks are each divided into four sections, with independent valves; so that one-quarter, one-half, three-quarters, or the whole surface may be heated as required. A vertical-tube radiator of 50 square feet surface is set in each hall on first floor. Eight double-row radiators of 80 square feet surface are set in the large hall in the recess of the windows, with closed foot and a cold-air inlet from the outside. An indirect pipe-radiator of 100 square feet surface is set under each lower hall in a galvanized-iron box with registers on first floor, to be used as foot-warmers. The cold air is brought to these from the cold-air channels by galvanized-iron pipes. The main steam-pipe is 6 inch from the 8-inch drum on the boilers until it is branched to the radiators. Valves are set so that all the heating can be regulated from the cellar, but each direct radiator has also valves to be worked from the rooms. All the return-pipes are brought together with the blow-off pipes

from the boilers, and run to the old well situated in the cellar.

The ventilating-shafts are tin-lined throughout: each contains a 16-inch cast-iron smoke-flue set on a brick pier in the cellar, and connected to the furnaces by wrought-iron pipe. All the hot-air flues from the heating-chambers are brought up inside of the ventilating-shaft, and enter the rooms 8 feet above the floor. At the bottom of each is a box with a branch from the cold-air channel, with movable hinged valves which can be opened from the schoolroom, thus tempering the hot-air delivered in the room. This valve closes the hot-air connection as it opens the cold-air connection; so that in summer it will deliver cool air which has passed under the cellar through the cold-air channels.

Each room has two openings into the vent-shaft for ventilation, — one at the top, 8 feet from the floor, for summer ventilation; and one at the floor-level, for winter, when the hot air is coming in above. The openings are closed by board valves worked by a cord and catch. In the upper hall there are three upper and three lower ventilation-openings. There is also a door, giving access to the vent-shaft, where there is a space for setting a small stove to create a draught in the shaft during hot weather. All the openings in the shaft have a galvanized-iron hood, to give an upward current to the air, and to obviate any entrance of air from the lower rooms into the upper rooms. The coat-rooms are ventilated by 12-inch square flues built in the corner of the room, connected at the top with the vent-shaft, and heated by a line of 1-inch pipe run up from boiler and returned. All main steam-pipes in cellar are covered with hair felting and duck. Wherever pipes pass through the walls, they are set in a sleeve.

It is thought that one boiler will be sufficient, except in the very severest weather. According to the outer temperature, the supply of heat can be regulated by the section-valves in the cellar, and also by the cold-air valve, which is regulated by the teacher, from the schoolroom. In winter

the upper-vent register would be closed: otherwise the hot air, which comes in by the side of it, would be drawn into the shaft before heating the room. The total cost of the work was \$9,091.62.

PARKS.

JOINT STANDING COMMITTEE ON PARKS.

ALDERMAN JOHN Q. HENRY, *Chairman.*

ALDERMAN DAVID T. BUNKER. ALDERMAN J. WESLEY KIMBALL.

COUNCILMAN WILLIAM B. YOUNG.

COUNCILMAN JAMES H. NICKERSON.

COUNCILMAN WILLARD G. BRACKETT.

COUNCILMAN WILLIAM PIERCE.

PARKS.

The laying-out of the park in Ward Seven, known as Farlow Park, early engaged the attention of the Joint Standing Committee on Parks. Surveys and an outline plan of the park were made. The park contains about $3\frac{7}{100}$ acres, and is bounded by Vernon, Eldridge, and Church Streets, and lands of heirs of J. A. Cleaveland, and of John C. Chaffin.

Two plans were submitted to the committee for laying out the grounds, — one drawn by George F. Meacham, architect, contemplating grading with a very irregular surface, the construction of winding and covered paths, rockeries, cascades, ponds, and a playground containing about 32,500 square feet; the second, designed by George M. Shinn, architect, had principally in view the laying-out for athletic sports. A playground elliptical in shape, containing about 61,500 square feet, occupied the central portion of the grounds: this was surrounded by a bicycle-path 12 feet wide. It was proposed to lay out the rest of the park with but a few paths leading from street to street.

A modification of these two plans drawn by Mr. Meacham was finally adopted by the committee. It contemplates the construction of a playground elliptical in shape, containing about 49,000 square feet, extending from near the corner of Church and Eldridge Streets, diagonally across the grounds. It also contains the features of Mr. Meacham's original plan; but by special vote of the committee these features have only been partially executed.

Mr. Meacham also submitted several designs for a stone-curbing, or fence, around the park. The plan accepted consisted of a granite rail 20 inches deep and 8 inches wide, with a split face and top, and a marginal line $1\frac{1}{2}$ inches wide around the face and top. Between each rail is set a stone post dressed 12 inches square, with split faces, and a $1\frac{1}{2}$ -inch marginal line. The posts are square for 6 inches above the rail, and end in a pyramidal top 3 inches in height. The contract was awarded to Alexander McDonald of Cambridge for furnishing the curbing at \$1.20 per running foot, including the posts. The grading of the paths and grounds, and the setting of the curbing, were performed under the direction of this department.

Surveys and plans were made, and titles examined, of the tract of land between Cabot, Blake, Mill, Hull, Highland, Valentine, Homer, Walnut, Beacon, Pleasant, Morton, and Cedar Streets, and through the Colby, Edmands, and Shannon estates to Cabot Street. The tract contains about 375 acres, and comprises 50 estates. Hearings were attended, appraisement schedules made, descriptions of the various propositions and calculations of the areas made for the proposed Central Park. The numerous changes in the limits of the proposed park, requiring the lines located for each, represent a large amount of work for which no results have apparently been attained.

The northerly shore of Crystal Lake, Ward Six, being in a ragged and unsightly condition, the attention of the City Council was called to it by the Newton Centre Improvement Society; and an appropriation of \$600 for widening the street to its full width was made from the general appropriation for highway widenings and improvements, and another appropriation of \$500 was made from the general appropriation for parks. The sum of \$550.01 was subscribed and paid by the Newton Centre Improvement Society, and citizens living in the immediate vicinity, for its further improvement. A granite-capped wall about 1 foot high above high-water mark was built in the lake from 15 to 20 feet from the

street line: a gravel-path was made just inside of the wall, and the balance of the space between it and the street graded and sodded. A light iron fence was erected on the street line. The total cost of the work was \$1,637.69.

HEALTH DEPARTMENT.

BOARD OF HEALTH.

ALDERMAN JAMES R. DEANE, *President.*

ALDERMAN HENRY E. COBB.

ALDERMAN J. WESLEY KIMBALL.

ALDERMAN ELIJAH W. WOOD.

ALDERMAN DAVID T. BUNKER.

ALDERMAN DWIGHT CHESTER.

ALDERMAN JOHN Q. HENRY.

EXECUTIVE OFFICERS.

NATHAN MOSMAN, *Agent.*

ALBERT F. NOYES (City Engineer), *Inspector of Plumbing.*



BOARD OF HEALTH.

As directed by special order of the Board of Health, the inspection of all plumbing-work, so far as it came to our notice, was continued through most of the year. Finding the rules of the Board were too incomplete to give the best results, their revision early engaged the attention of this department. A new set of rules were carefully prepared (adapted as far as possible to our special conditions, and the best practice of the day), and criticisms of the same by some of our best sanitarians were invited.

While the action of the Board of Health in this matter has worked a radical change for the better in the character and design of the work performed, there is still considerable reluctance in complying with that portion of Rule 17, relating to the filing of plans and specifications, and the giving of notice when the work is ready for inspection. While this may seem a hardship, and unnecessary to some, it is of the highest importance to the inspector. The knowledge of just what work is intended to be performed prevents numerous visits which would otherwise be necessary; it also prevents a wrong conception of the rules, and has in many cases saved considerable unnecessary work. It requires, further, a more careful study or laying-out of the work than is usually or would otherwise be given before commencing the work.

For the most part, I have found the general desire is to do good work; but the contracts are not always drawn in full

compliance with the rules of the Board, and in such cases I find a reluctance to do more than the contract calls for. Such a condition of circumstances has a tendency to divide the responsibility between the plumber and the owner.

In order to get the best results, I am convinced that each plumber performing work in the city of Newton should be licensed, and held strictly accountable for the work performed. This is now done in many cities, and is attended with admirable results. I would therefore recommend that the necessary steps be taken, empowering the Board of Health to make such rules as may be necessary for the examination and licensing of such plumbers as may pass said examination and properly qualify.

SEWERAGE.

In accordance with the recommendations of his Honor Mayor Ellison, a Joint Special Committee on Sewerage was appointed to consider the question of the construction of sewers in the city. The committee appointed consisted of Alderman Dwight Chester, chairman; Alderman Elijah W. Wood; Councilman William B. Young; Councilman Eben Thompson; Councilman Henry A. Thorndike.

Several consultations were held in regard to the question of a sewerage system adapted to this city; various works were examined with his Honor Mayor Ellison, and the chairman, Alderman Chester; and the committee reported, recommending a more careful study of the question in general, with special reference to the economic adaptability of the separate system to our city.

ACKNOWLEDGMENTS.

In closing, I would respectfully tender my acknowledgments to his Honor Mayor Ellison, the Water Board, and the various committees of the City Council under and for whom the services of this department have been rendered; to the various heads of departments for courtesies shown,

and to the assistants in this department for their hearty co-operation in every undertaking; to William E. Worthen of New York, consulting engineer, A. Fteley, principal assistant city engineer of Boston, and to Hon. Nathaniel Wheeler of Bridgeport, Conn., for their warm interest in the results of the various works under my direction, and their valuable suggestions in its execution.

Respectfully submitted.

ALBERT F. NOYES, *City Engineer.*

